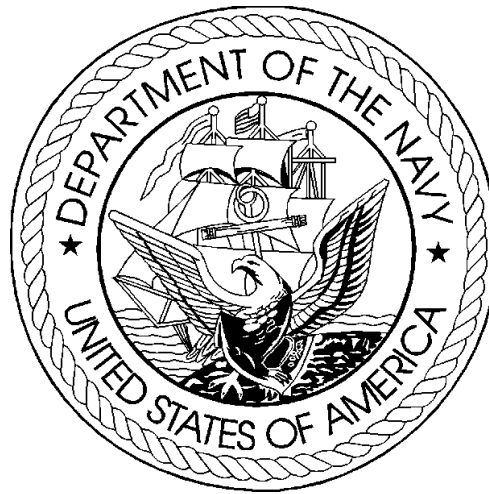


DEPARTMENT OF THE NAVY FY 1999 AMENDED BUDGET ESTIMATES



JUSTIFICATION OF ESTIMATES
FEBRUARY 1998

OTHER PROCUREMENT, NAVY
BUDGET ACTIVITY 3

UNCLASSIFIED

Department of the Navy

FY 1999 Procurement Program

Exhibit P-1

APPROPRIATION: 1810N Other Procurement, Navy

DATE: 01/23/98

LINE NO	ITEM NOMENCLATURE	IDENT CODE	(DOLLARS) FY 1999 UNIT COST	TOA, \$ IN MILLIONS						
				-----FY 1997-----		-----FY 1998-----		-----FY 1999-----		
				QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	
BUDGET ACTIVITY 03: Aviation Support Equipment										

Sonobuoys										
120	4005 AN/SSQ-36 (BT)	A			.9		1.7		1.4	U
121	4025 AN/SSQ-53 (DIFAR)	A			22.7		46.8		37.3	U
122	4030 AN/SSQ-57 (Special Purpose)	A			-		.5		2.4	U
123	4032 AN/SSQ-62 (DICASS)	A			30.9		30.6		20.7	U
124	4036 AN/SSQ-101 (ADAR)	B			-		-		16.6	U
125	4038 AN/SSQ-110	A			1.9		-		-	U
126	4045 Signal, Underwater Sound (SUS)	A			1.1		-		1.3	U
Aircraft Support Equipment										
127	4204 Weapons Range Support Equipment	A			31.1		10.5		8.1	U
128	4208 Expeditionary Airfields	A			1.5		1.2		5.0	U
129	4214 Aircraft Rearming Equipment	A			9.1		10.1		12.9	U
130	4216 Aircraft Launch & Recovery Equipment	A			28.3		29.0		39.7	U
131	4218 PREDATOR UAV (DARP)	A			7.8		-		-	U
132	4220 PIONEER UAV (DARP)	A			25.0		-		-	U
133	4226 Meteorological Equipment	A			16.3		17.4		32.9	U
134	4242 Other Photographic Equipment	A			.7		.8		.6	U
135	4244 Aviation Life Support	A			8.8		12.3		22.3	U
136	4248 Airborne Mine Countermeasures	A			13.1		19.5		39.4	U
137	4255 LAMPS MK III Shipboard Equipment	A			.3		-		-	U
138	4256 REWSON Photographic Equipment	A			.7		.7		.9	U

UNCLASSIFIED

Department of the Navy

FY 1999 Procurement Program

Exhibit P-1

APPROPRIATION: 1810N Other Procurement, Navy

DATE: 01/23/98

LINE NO	ITEM NOMENCLATURE	IDENT CODE	(DOLLARS) FY 1999 UNIT COST	TOA, \$ IN MILLIONS						S E C
				-----FY 1997----	-----FY 1998----	-----FY 1999----	-----FY 1997----	-----FY 1998----	-----FY 1999----	
----	-----	-----	-----	QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	-----
139	4259 Stock Surveillance Equipment	A			1.6		1.5		-	U
140	4265 Other Aviation Support Equipment	A			8.9		6.0		4.3	U
	TOTAL Aviation Support Equipment				210.8		188.7		245.7	

UNCLASSIFIED

Department of the Navy

FY 1999 Procurement Program - Reserve Component

Exhibit P-1R

APPROPRIATION: 1810N Other Procurement, Navy

DATE: 01/23/98

LINE NO	ITEM NOMENCLATURE	IDENT CODE	(DOLLARS) FY 1999 UNIT COST	TOA, \$ IN MILLIONS						S E C
				-----FY 1997-----		-----FY 1998-----		-----FY 1999-----		
				QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	
BUDGET ACTIVITY 03: Aviation Support Equipment										

Sonobuoys										
2	4005 AN/SSQ-36 (BT)(RESERVE)	A			.*		.*		.1	U
3	4025 AN/SSQ-53 (DIFAR)(RESERVE)	A			-		2.5		1.8	U
4	4032 AN/SSQ-62 (DICASS)(RESERVE)	A			.9		.7		1.0	U
5	4045 Signal, Underwater Sound (SUS)(RESERVE)	A			-		-		.2	U
TOTAL Aviation Support Equipment					1.0		3.2		3.1	
* ITEMS UNDER \$50,000										

Other Procurement, Navy
Program and Financing (in Thousands of dollars)

		Budget Plan (amounts for PROCUREMENT actions programed)			Obligations		
Identification code	17-1810-0-1-051	1997 actual	1998 est.	1999 est.	1997 actual	1998 est.	1999 est.
Program by activities:							
Direct program:							
00.0101	Ships support equipment	805,171	721,811	963,074	726,987	665,888	852,505
00.0201	Communications and electronics equipment	1,009,472	1,165,616	1,530,802	1,112,627	1,100,628	1,522,885
00.0301	Aviation support equipment	210,756	188,669	245,663	241,254	166,320	221,064
00.0401	Ordnance support equipment	460,886	517,909	674,703	430,909	472,834	593,825
00.0501	Civil engineering support equipment	38,865	46,404	69,902	46,043	39,870	60,686
00.0601	Supply support equipment	67,170	51,902	108,905	84,329	54,112	91,963
00.0701	Personnel and command support equipment	48,732	79,788	65,660	110,527	67,150	61,813
00.0801	Spares and repair parts	196,921	215,975	279,028	188,178	184,644	249,408
00.9101	Total direct program	2,837,973	2,988,074	3,937,737	2,940,854	2,751,446	3,654,149
01.0101	Reimbursable program	53,283	42,000	42,000	50,987	45,439	42,000
10.0001	Total	2,891,256	3,030,074	3,979,737	2,991,841	2,796,885	3,696,149
Financing:							
Offsetting collections from:							
11.0001	Federal funds(-)	-1,014	-42,000	-42,000	3,472	-42,000	-42,000
14.0001	Non-Federal sources(-)	-52,269			-51,869		
17.0001	Recovery of prior year obligations				-56,565		
Unobligated balance available, start of year:							
21.4002	For completion of prior year budget plans				-496,308	-430,674	-663,863
21.4003	Available to finance new budget plans	-17,237	-16,677		-17,237	-16,677	
21.4009	Reprogramming from/to prior year budget plan	-16,727					
22.1001	Unobligated balance transferred to other acco	4,200	11,177		4,200	11,177	
Unobligated balance available, end of year:							
24.4002	For completion of prior year budget plans				430,674	663,863	947,451
24.4003	Available to finance subsequent year budget	16,677			16,677		
25.0001	Unobligated balance expiring	9,227			9,227		
39.0001	Budget authority	2,834,113	2,982,574	3,937,737	2,834,113	2,982,574	3,937,737
Budget authority:							
40.0001	Appropriation	3,036,268	3,144,205	3,937,737	3,036,268	3,144,205	3,937,737
40.3601	Appropriation rescinded (unob bal)		-5,500			-5,500	
40.7601	Reduction pursuant to P.L. 105-56 (-), 8035		-56,735			-56,735	
41.0001	Transferred to other accounts (-)	-218,321	-99,396		-218,321	-99,396	
42.0001	Transferred from other accounts	16,166			16,166		
43.0001	Appropriation (adjusted)	2,834,113	2,982,574	3,937,737	2,834,113	2,982,574	3,937,737

Other Procurement, Navy
Program and Financing (in Thousands of dollars)

		Budget Plan (amounts for PROCUREMENT actions programed)			Obligations		
Identification code	17-1810-0-1-051	1997 actual	1998 est.	1999 est.	1997 actual	1998 est.	1999 est.
Relation of obligations to outlays:							
71.0001	Obligations incurred				2,943,444	2,754,885	3,654,149
72.1001	Orders on hand, SOY				-86,326	-89,947	-89,947
72.4001	Obligated balance, start of year				3,793,123	3,407,474	3,129,392
74.1001	Orders on hand, EOY				89,947	89,947	89,947
74.4001	Obligated balance, end of year				-3,407,474	-3,129,392	-3,542,101
77.0001	Adjustments in expired accounts (net)				-222,581		
78.0001	Adjustments in unexpired accounts				-56,565		
90.0001	Outlays (net)				3,053,568	3,032,967	3,241,440

Other Procurement, Navy
Object Classification (in Thousands of dollars)

Identification code	17-1810-0-1-051	1997 actual	1998 est.	1999 est.

Direct obligations:				
122.001	Transportation of things	7,310	3,930	5,043
125.101	Advisory and assistance services	30,999	24,754	27,781
Purchases goods/services (inter/intra) Fed accounts				
125.303	Purchases from revolving funds	661,438	989,796	1,469,053
126.001	Supplies and materials	403,528	445,181	659,263
131.001	Equipment	1,837,579	1,287,785	1,493,009
		-----	-----	-----
199.001	Total Direct obligations	2,940,854	2,751,446	3,654,149
Reimbursable obligations:				
231.001	Equipment	50,987	45,439	42,000
		-----	-----	-----
299.001	Total Reimbursable obligations	50,987	45,439	42,000
		-----	-----	-----
999.901	Total obligations	2,991,841	2,796,885	3,696,149

Comparison of FY 1998 Financing as reflected
in FY 1998 Budget with 1998 Financing as
Shown in the FY 1999 Budget

(\$ In Thousands)

	Financing Per FY 1998 Budget	Financing Per FY 1999 Budget	Increase (+) or Decrease (-)
Program Requirements (Total)	\$2,867,500	\$3,030,074	+\$162,574
Program Requirements (Service Account)	(\$2,825,500)	(\$2,988,074)	(+162,574)
Program Requirements (Reimbursable)	(\$42,000)	(\$42,000)	0
Appropriation (Adjusted)	\$2,825,500	\$2,982,574	+\$157,074

Explanation of Changes in Financing

The Fiscal Year 1998 program has changed since the presentation of the FY 1998 budget as noted below:

1. Program Requirements. There has been a net increase to the appropriation (adjusted) of +\$157,074. This net change is comprised of an increase in program requirements (+\$162,574), less rescissions of (-\$5,500).

Comparison of FY 1998 program requirements as reflected
in the FY 1998 Budget with FY 1998 program requirements
as shown in the FY 1999 Budget

Summary of Requirements (\$ in Thousands)

	Total Program Requirements per FY 1998 Budget	Total Program Requirements per FY 1999 Budget	Increase (+) or Decrease (-)
Ships Support Equipment	\$771,120	\$721,811	-\$49,309
Communications and Electronic Equip	925,763	1,165,616	+239,853
Aviation Support Equipment	169,250	188,669	+19,419
Ordnance Support Equipment	539,662	517,909	-21,753
Civil Engineering Support Equip	53,610	46,404	-7,206
Supply Support Equipment	56,528	51,902	-4,626
Personnel and Command Support Equip	60,850	79,788	+18,938
Spares and Repair Parts	248,717	215,975	-32,742
Total Fiscal Year Program	\$2,825,500	\$2,988,074	+\$162,574

Explanation by Budget Activity
(\$ in Thousands)

1. Ships Support Equipment (-\$49,309) - Changes reflect FY 1997 Congressional reductions (-\$54,066), Congressional increases (+\$30,500), reductions for equipment installation on decommissioned ships (-\$6,334), and Department of the Navy (DoN) offsets for higher priority programs (-\$19,409).
2. Communications and Electronics Equipment (+\$239,853) - Changes reflect FY 1997 Congressional reductions (-\$43,141), Congressional increases(+\$297,500), and DoN offsets for higher priority programs (-\$14,506).

Comparison of FY 1998 program requirements as reflected
in the FY 1998 Budget with FY 1998 program requirements
as shown in the FY 1999 Budget

Explanation by Budget Activity (Continued)
(\$ in Thousands)

3. Aviation Support Equipment (+\$19,419) - Changes reflect FY 1997 Congressional reductions (-\$8,871), Congressional increases(+\$40,350), and DoN offsets for higher priority programs (-\$12,060).
4. Ordnance Support Equipment (-\$21,753) - Changes reflect FY 1997 Congressional reductions (-\$24,463), Congressional increases(+\$31,000), and DoN offsets for higher priority programs (-\$28,290).
5. Civil Engineering Support Equipment (-\$7,206) - Changes reflect FY 1997 Congressional reductions (-\$4,833), Congressional increases(+\$4,500), a below threshold reprogramming (BTR) action (-\$4,100), and DoN offsets for higher priority programs (-\$2,773) .
6. Supply Support Equipment (-\$4,626) - Changes reflect FY 1997 Congressional reductions (-\$1,301), minor BTR (-\$1,763), and DoN offsets for higher priority programs (-\$1,562).
7. Personnel and Command Support (+\$18,938) - Changes reflect Congressional reductions (-\$1,914), Congressional increases of (+\$21,500), and DoN offsets for higher priority programs (-\$648).
8. Spare and Repair Parts (-\$32,742) - Changes reflect FY 1997 Congressional reductions (-\$24,791) and DoN offsets for higher priority programs (-\$7,951).

Comparison of FY 1997 Financing as reflected
in FY 1998 Budget with 1997 Financing as
Shown in the FY 1999 Budget

(\$ In Thousands)

	Financing Per FY 1998 Budget	Financing Per FY 1999 Budget	Increase (+) or Decrease (-)
Program Requirements (Total)	\$2,934,355	\$2,891,256	-\$43,099
Program Requirements (Service Account)	(\$2,892,355)	(\$2,837,973)	(-54,382)
Program Requirements (Reimbursable)	(\$42,000)	(\$53,283)	(+11,283)
Appropriation (Adjusted)	\$2,882,355	\$2,834,113	-\$48,242

Explanation of Changes in Financing

The Fiscal Year 1997 program has changed since the presentation of the FY 1998 budget as noted below:

1. Program Requirements. There has been a net decrease to the appropriation (adjusted) of (-\$48,242). This net change is comprised of an decrease in program requirements (-\$54,382) partially offset by an increase in reimbursable authority of (+\$11,283).

Comparison of FY 1997 program requirements as reflected
in the FY 1998 Budget with FY 1997 program requirements
as shown in the FY 1999 Budget

Summary of Requirements
(\$ in Thousands)

	Total Program Requirements per FY 1998 Budget	Total Program Requirements per FY 1999 Budget	Increase (+) or Decrease (-)
Ships Support Equipment	\$815,611	\$805,171	-\$10,440
Communications and Electronic Equip	1,044,672	1,009,472	-35,200
Aviation Support Equipment	249,793	210,756	-39,037
Ordnance Support Equipment	468,410	460,886	-7,524
Civil Engineering Support Equip	43,943	38,865	-5,078
Supply Support Equipment	67,709	67,170	-539
Personnel and Command Support Equip	0	48,732	+48,732
Spares and Repair Parts	202,217	196,921	-5,296
Total Fiscal Year Program	\$2,892,355	\$2,837,973	-\$54,382

Explanation by Budget Activity
(\$ In Thousands)

1. SHIP SUPPORT EQUIPMENT (-\$10,440) - Net decrease reflecting (-\$1,061) offset for MPN prior approval reprogramming action, FY 1997 Supplemental Appropriation adjustment for revised economic assumptions (-\$2,556), and below threshold reprogramming (BTR) actions (-\$6,823) including (-\$3,338) to finance unfunded Investment/expense items in Budget Activity (BA) Seven, Personnel and Command Support.

Explanation by Budget Activity (Continued)
(\$ In Thousands)

2. COMMUNICATIONS & ELECTRONIC EQUIPMENT (-\$35,200) - Net decrease reflecting (-\$9,732) offset for MPN prior approval reprogramming action, FY 1997 Supplemental Appropriation adjustment for revised economic assumptions (-\$2,555), increase of (+\$1,166) for Counter Drug Interdiction, Congressional rescission of SHINCOM (-\$2,200), transfer of NSIPS (-\$24,477) to BA-7, Personnel and Command Support, transfer for AEGIS, TBMD, CEC (-\$6,202), and net BTR actions of (+\$8,800).
3. AVIATION SUPPORT EQUIPMENT (-\$39,037) - Net decrease reflecting (-\$1,424) offset for MPN prior approval reprogramming action, FY 1997 Supplemental Appropriation adjustment for revised economic assumptions (-\$590), Omnibus Reprogramming Action offsets (-\$29,239), transfer for AEGIS, TBMD, CEC (-\$3,700), and net BTR reductions of (-\$4,084).
4. ORDNANCE SUPPORT EQUIPMENT (-\$7,524) - Net decrease reflecting (-\$4,389) offset for MPN prior approval reprogramming action, FY 1997 Supplemental Appropriation adjustment for revised economic assumptions (-\$1,370), and net BTR reductions of (-\$1,765).
5. CIVIL ENGINEERING SUPPORT (-\$5,078) - Net decrease reflecting (-\$4,000) offset for MPN prior approval reprogramming action, FY 1997 Supplemental Appropriation adjustment for revised economic assumptions (-\$950), and minor BTR reductions of (-\$128).
6. SUPPLY SUPPORT EQUIPMENT (-\$539) - Net decrease reflecting (-\$500) offset for MPN prior approval reprogramming action, FY 1997 Supplemental Appropriation adjustment for revised economic assumptions (-\$204), and minor BTR increases of (+\$165).
7. PERSONNEL & COMMAND SUPPORT (+\$48,732) - Increase reflecting transfer of NSIPS (+\$24,477) from BA-2, Communications and Electronic Equipment, and funding increases for Investment/Expense items (+\$24,255).
8. SPARES & REPAIR PARTS (-\$5,296) - Net decrease reflecting (-\$1,083) offset for MPN prior approval reprogramming action, FY 1997 Supplemental Appropriation adjustment for revised economic assumptions (-\$614), transfer for AEGIS, TBMD, CEC (-\$1,275), and net BTR reductions of (-\$2,324).

CLASSIFICATION:

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET										DATE: FEBRUARY 1998																		
P-40																												
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY							P-1 ITEM NOMENCLATURE AN/SSQ-36 (BT) SONOBUOY PEO(A) PROGRAM NARM#400500																					
Program Element for Code B Items:							Other Related Program Elements																					
	Prior Years*	ID Code	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total																
QUANTITY																												
COST (In Millions)	\$70.3		\$0.2	\$0.9	\$1.7	\$1.4	\$1.4	\$1.3	\$1.3	\$1.4	CONTINUING																	
<p>The AN/SSQ-36 is an air-dropped bathythermograph transmitting set that is used to provide a vertical temperature profile of the ocean with respect to depth. The data is transmitted to ASW aircraft to assist in the selection of hydrophone depths and tactics for localizing and tracking submarines. The information on ambient water conditions is also used for long-range forecasts of acoustic conditions in the ocean.</p> <p>The FY 96 contract was awarded to Sparton for a quantity of 669 AN/SSQ-36B's.</p> <p>The FY 97 contracts were awarded to Hermes (2,339) and Sparton (1,000) for a total quantity of 3,339 AN/SSQ-36B's.</p> <p>The FY 98 program provides for 6,128 AN/SSQ-36B's to be competed among qualified manufacturers.</p> <p>The FY 99 program provides for 4,556 AN/SSQ-36B's to be competed among qualified manufacturers.</p> <p>RESERVE FUNDING INCLUDED IN TOTAL (\$000)</p> <table><tr><td>FY96</td><td>FY97</td><td>FY98</td><td>FY99</td><td>FY00</td><td>FY01</td><td>FY02</td><td>FY03</td></tr><tr><td>3</td><td>27</td><td>41</td><td>55</td><td>53</td><td>53</td><td>35</td><td>36</td></tr></table>													FY96	FY97	FY98	FY99	FY00	FY01	FY02	FY03	3	27	41	55	53	53	35	36
FY96	FY97	FY98	FY99	FY00	FY01	FY02	FY03																					
3	27	41	55	53	53	35	36																					

CLASSIFICATION:

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WEAPONS SYSTEM COST ANALYSIS P-5						Weapon System AN/SSQ-36 (BT) SONOBUOY							DATE: FEBRUARY 1998		
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy B.A. 3 - AVIATION SUPPORT EQUIPMENT						ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD PEO(A) PROGRAM NARM #400500 SUBHEAD U3QG								
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS												
			Prior Years	FY 1996			FY 1997			FY 1998			FY 1999		
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
QG001	AN/SSQ-36 w/SLC*	A	\$59,840	669	\$255.26	\$171	3,339	\$221.72	\$803	6,128	\$244.82	\$1,500	4,556	\$265.34	\$1,209
QG830	PRODUCTION ENGINEERING		\$4,010			12			45			100			73
QG860	ACCEPTANCE TESTING		\$6,454			11			46			112			78
* SONOBUOY LAUNCH CONTAINER															
** In addition to hardware, total costs include \$63K for other items separately priced such as production line verifications, some design and/or production readiness reviews, qualification costs and data packages.															

UNCLASSIFIED

CLASSIFICATION:

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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System AN/SSQ-36 (BT)		A. DATE FEBRUARY 1998			
B. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy					C. P-1 ITEM NOMENCLATURE PEO(A) PROGRAM				SUBHEAD U3QG	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
FY96										
AN/SSQ-36 w/SLC	669	\$255.26	NSWC CRANE	10/95	C/FFP	SPARTON, FL	5/96	5/97	YES	
FY97 *										
AN/SSQ-36 w/SLC	2,339	\$207.38	NSWC CRANE	10/96	C/FFP	HERMES, CAN	1/97	2/98	YES	
	1,000	\$255.26	NSWC CRANE	10/96	C/FFP	SPARTON, FL	1/97	2/98	YES	
FY98										
AN/SSQ-36 w/SLC	6,128	\$244.82	NSWC CRANE	10/97	C/FFP	TBA	1/98	10/98	YES	
FY99										
AN/SSQ-36 w/SLC	4,556	\$265.34	NSWC CRANE	10/98	C/FFP	NOT SELECTED	12/98	10/99	YES	
D. REMARKS * Sonobuoy contracts contain other items separately priced. In addition to hardware, total costs include \$63K for other items such as production line verifications, some design and/or production readiness reviews, qualification costs, and data packages. The P-5A exhibit depicts only hardware quantities and unit costs.										

FY 1998/99 BUDGET PRODUCTION SCHEDULE, P-21										DATE		FEBRUARY 1998		
APPROPRIATION/BUDGET ACTIVITY					Weapon System					P-1 ITEM NOMENCLATURE				
OTHER PROCUREMENT, NAVY					AN/SSQ-36 (BT)					PEO(A) PROGRAM				
					Production Rate			Procurement Leadtimes						
Item	Manufacturer's Name and Location				MSR	1-8-5	MAX	ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure	
AN/SSQ-36B	HERMES, CANADA*				0.25	12.0	12.0						K	
AN/SSQ-36B	SPARTON, FL				0.25	12.0	12.0**		3	9		12	K	

ITEM / MANUFACTURER	F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 1997												FISCAL YEAR 1998												B A L
						1996			CALENDAR YEAR 1997									1997			CALENDAR YEAR 1998									
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
QG001 AN/SSQ-36B - HERMES	94			5.1	0.0	5.1									2.4	2.7														0.0
QG001 AN/SSQ-36B - SPARTON	94			1.3	0.0	1.3									0.2	0.2														0.0
QG001 AN/SSQ-36B - HERMES	95			9.5	0.0	9.5									1.5	1.5														0.0
QG001 AN/SSQ-36B - HERMES	95			1.8	0.0	1.8									0.3	0.3														0.0
QG001 AN/SSQ-36B - SPARTON	96			0.7	0.0	0.7									0.2	0.2														0.0
QG001 AN/SSQ-36B - HERMES	97			2.3	0.0	2.3																								0.0
QG001 AN/SSQ-36B - SPARTON	97			1.0	0.0	1.0																								0.0
QG001 AN/SSQ-36B - NOT SELECTED	98			6.1	0.0	6.1																								6.1
QG001 AN/SSQ-36B - NOT SELECTED	99			4.6	0.0	4.6																								4.6

ITEM / MANUFACTURER	F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 1999												FISCAL YEAR 2000												B A L
						1998			CALENDAR YEAR 1999												CALENDAR YEAR 2000									
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
QG001 AN/SSQ-36B - NOT SELECTED	98			6.1	0.0	6.1	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6												0.0
QG001 AN/SSQ-36B - NOT SELECTED	99			4.6	0.0	4.6			A										0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4

Remarks:

* RATES ARE BASED ON THE FY95 CONTRACT VERSUS THE INDUSTRIAL BASE PLAN, HERMES IS NO LONGER A MOBILIZATION BASE PRODUCER.

** IF MOBILIZATION IS FOR MULTIPLE BUOY TYPES THEN THE MAXIMUM QUANTITY SHOULD BE REDUCED BY 33% - 50%

CLASSIFICATION:

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BUDGET ITEM JUSTIFICATION SHEET P-40								DATE: FEBRUARY 1998																				
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY							P-1 ITEM NOMENCLATURE AN/SSQ-53 (DIFAR) SONOBUOY PEO (A) PROGRAM NARM #402500																					
Program Element for Code B Items: BA3 - AVIATION SUPPORT EQUIPMENT							Other Related Program Elements																					
	Prior Years*	ID Code	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total																
QUANTITY																												
COST (In Millions)	\$1,188.5		\$0.0	\$22.7	\$46.8	\$37.3	\$30.0	\$28.9	\$30.0	\$30.5	CONTINUING																	
<p>The AN/SSQ-53 (DIFAR) is a passive directional sonobuoy which provides acoustic target localization information. The AN/SSQ-53E DIFAR Sonobuoy incorporates shallow water performance enhancements over the AN/SSQ-53D. The Engineering Change Proposal (ECP) was developed in FY97 and incorporates: (1) a Constant Shallow Omni (CSO) hydrophone, (2) Command Function Select (CFS), (3) additional DIFAR depth, and (4) Automatic Gain Control (AGC).</p> <p>FY97 contracts were awarded to Hermes (17,801), Spartan (6,514) and Hughes (3,695) for a total quantity of 28,010 AN/SSQ-53E's. The FY97 program included \$6.5M for an AN/SSQ-53E ECP.</p> <p>The FY98 program provides for 116,208 AN/SSQ-53E DIFAR Sonobuoys to be competed among qualified manufacturers.</p> <p>The FY99 program provides for 86,283 AN/SSQ-53E DIFAR Sonobuoys to be competed among qualified manufacturers.</p> <p>RESERVE FUNDING INCLUDED IN TOTAL (\$000)</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: right;">FY96</td> <td style="text-align: right;">FY97</td> <td style="text-align: right;">FY98</td> <td style="text-align: right;">FY99</td> <td style="text-align: right;">FY00</td> <td style="text-align: right;">FY01</td> <td style="text-align: right;">FY02</td> <td style="text-align: right;">FY03</td> </tr> <tr> <td style="text-align: right;">0</td> <td style="text-align: right;">0</td> <td style="text-align: right;">2,494</td> <td style="text-align: right;">1,798</td> <td style="text-align: right;">2,031</td> <td style="text-align: right;">1,706</td> <td style="text-align: right;">1,626</td> <td style="text-align: right;">1,670</td> </tr> </table>													FY96	FY97	FY98	FY99	FY00	FY01	FY02	FY03	0	0	2,494	1,798	2,031	1,706	1,626	1,670
FY96	FY97	FY98	FY99	FY00	FY01	FY02	FY03																					
0	0	2,494	1,798	2,031	1,706	1,626	1,670																					

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WEAPONS SYSTEM COST ANALYSIS P-5						Weapon System AN/SSQ-53 (DIFAR) SONOBUOY							DATE: FEBRUARY 1998		
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA3 - AVIATION SUPPORT EQUIPMENT						ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD PEO(A) PROGRAM NARM #402500 SUBHEAD U3QC								
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS												
			Prior Years	FY 1996			FY 1997			FY 1998			FY 1999		
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
QC001	AN/SSQ-53 w/SLC*	A	\$1,043,454				28,010	\$637.63	\$18,215	116,208	\$353.29	\$41,056	86,283	\$383.82	\$33,117
QC830	PRODUCTION ENGINEERING		63,501						3,474			2,798			1,987
QC860	ACCEPTANCE TESTING		81,503						1,000			2,930			2,153
* SONOBUOY LAUNCH CONTAINER															
** In addition to hardware, total costs include \$355K for other items separately priced such as production line verifications, some design and/or production readiness reviews, qualification costs and data packages.															
			\$1,188,458			\$0			\$22,689			\$46,784			\$37,257

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P-1 SHOPPING LIST

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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System AN/SSQ-53 (DIFAR)		FEBRUARY 1998			
B. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA3 - AVIATION SUPPORT EQUIPMENT					C. P-1 ITEM NOMENCLATURE PEO(A) PROGRAM NARM #402500				SUBHEAD U3QC	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
FY97 *										
AN/SSQ-53 w/SLC	17,801	\$380.83	NSWC CRANE	10/96	C/FFP	HERMES, CAN	4/97	1/98	YES	
	6,514	\$432.58	NSWC CRANE	10/96	C/FFP	SPARTON, FL	4/97	1/98	YES	
	3,695	\$456.85	NSWC CRANE	10/96	C/FFP	HUGHES, IN	5/97	1/98	YES	
FY98										
AN/SSQ-53 w/SLC	116,208	\$353.29	NSWC CRANE	10/97	C/FFP	NOT SELECTED	1/98	1/99	YES	
FY99										
AN/SSQ-53 w/SLC	86,283	\$383.82	NSWC CRANE	10/98	C/FFP	NOT SELECTED	12/98	10/99	YES	
D. REMARKS										
* In addition to hardware, total costs include \$355K for other items separately priced such as production line verifications, some design and/or production readiness reviews, qualification costs, and data packages.										

FY 1998/99 BUDGET PRODUCTION SCHEDULE, P-21											DATE		FEBRUARY 1998																							
APPROPRIATION/BUDGET ACTIVITY						Weapon System					P-1 ITEM NOMENCLATURE																									
OTHER PROCUREMENT, NAVY						AN/SSQ-53 (DIFAR) SONOBUOY																														
						Production Rate			Procurement Leadtimes																											
Item	Manufacturer's Name and Location					MSR	1-8-5	MAX	ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure																						
AN/SSQ-53	SPARTON, FL					0.38	28.0	65.0*		3	9		12	K																						
AN/SSQ-53	HUGHES, IN					0.38	32.6	65.0*		3	9		12	K																						
ITEM / MANUFACTURER	F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 1997												FISCAL YEAR 1998												B A L						
						1996			CALENDAR YEAR 1997												1997			CALENDAR YEAR 1998												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P							
QC001 - AN/SSQ-53																																				
HERMES	97		17.8	0.0	17.8							A									1.4	1.4	1.4	1.4	1.4	1.5	1.5	1.5	1.5	4.8						
SPARTON	97		6.5	0.0	6.5							A									0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	1.8						
HUGHES	97		3.7	0.0	3.7								A								0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.00							
QC001 - AN/SSQ-53-NOT SELECTED	98		116.2	0.0	116.2																A									116.2						
QC001 - AN/SSQ-53 -NOT SELECTED	99		86.3	0.0	86.3																									86.3						
ITEM / MANUFACTURER	F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 1999												FISCAL YEAR 2000												B A L						
						1998			CALENDAR YEAR 1999															CALENDAR YEAR 2000												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P							
QC001 - AN/SSQ-53																																				
HERMES	97		17.8	13	4.80	1.6	1.6	1.6																						0.0						
SPARTON	97		6.5	4.7	1.80	0.6	0.6	0.6																						0.0						
QC001 - AN/SSQ-53 - NOT SELECTED	98		116.2	0.0	116.2				13	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9													0.0						
QC001 - AN/SSQ-53 - NOT SELECTED	99		86.3	0.0	86.3			A										7.1	7.2	7.2	7.2	7.2	7.2	7.1	7.2	7.2	7.2	7.2	7.2	0.0						
Remarks:																																				
* IF MOBILIZATION IS FOR MULTIPLE BUOY TYPES THEN THE MAXIMUM QUANTITY SHOULD BE REDUCED BY 33% - 50%.																																				

CLASSIFICATION:

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BUDGET ITEM JUSTIFICATION SHEET P-40										DATE: FEBRUARY 1998																		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY							P-1 ITEM NOMENCLATURE AN/SSQ-57 (SP) SONOBUOY PEO (A) PROGRAM NARM #403000																					
Program Element for Code B Items:							Other Related Program Elements																					
	Prior Years*	ID Code	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total																
QUANTITY																												
COST (In Millions)	\$57.9		\$0.0	\$0.0	\$0.5	\$2.4	\$1.6	\$0.0	\$1.8	\$0.0	CONTINUING																	
<p>The AN/SSQ-57 (SP) is a special purpose calibrated passive sonobuoy used for determinating the level of underwater acoustic energy radiated by submarines, the magnitude of water transmission loss and bottom loss (used with the Signal Underwater Sound (SUS) sonobuoy), and the level of ambient noise.</p> <p>The FY98 program provides for an analysis of the changes required to meet Congressional direction to modify AN/SSQ-57 sonobuoys to meet changing threat acoustic signatures.</p> <p>The FY99 program provides for 678 AN/SSQ-57 (SP) Sonobuoys to be competed among qualified manufacturers.</p> <p>RESERVE FUNDING INCLUDED IN TOTAL (\$000)</p> <table><tr><td>FY96</td><td>FY97</td><td>FY98</td><td>FY99</td><td>FY00</td><td>FY01</td><td>FY02</td><td>FY03</td></tr><tr><td>0</td><td>0</td><td>0</td><td>0</td><td>33</td><td>0</td><td>37</td><td>0</td></tr></table>													FY96	FY97	FY98	FY99	FY00	FY01	FY02	FY03	0	0	0	0	33	0	37	0
FY96	FY97	FY98	FY99	FY00	FY01	FY02	FY03																					
0	0	0	0	33	0	37	0																					

CLASSIFICATION:

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WEAPONS SYSTEM COST ANALYSIS P-5						Weapon System AN/SSQ-57 (SP) SONOBUOY							DATE: FEBRUARY 1998		
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy B.A. 3 - AVIATION SUPPORT EQUIPMENT						ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD PEO(A) PROGRAM NARM #403000 SUBHEAD TBD								
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS												
			Prior Years	FY 1996			FY 1997			FY 1998			FY 1999		
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
TBD	AN/SSQ-57 w/SLC*	A	\$50,654									** \$439	678	\$570.02	*** \$2,385
TBD	PRODUCTION ENGINEERING		3,473									20			20
TBD	ACCEPTANCE TESTING		3,763									30			30
*SONOBUOY LAUNCH CONTAINER															
** Provides for an analysis of the changes required to meet Congressional directional to modify AN/SSQ-57 sonobuoys to meet changing threat acoustic signatures.															
*** In addition to hardware, total costs include \$2M for ECP.															

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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System AN/SSQ-57 (SP) SONOBUOY		A. DATE FEBRUARY 1998			
B. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy B.A.3. - AVIATION SUPPORT EQUIPMENT					C. P-1 ITEM NOMENCLATURE PEO(A) PROGRAM NARM #403000				SUBHEAD TBD	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
FY99 AN/SSQ-57	678	\$570.02	NSWC CRANE	10/98	C/FFP	NOT SELECTED	12/98	10/99	YES	06/98
D. REMARKS The P-5A exhibit depicts only hardware quantities and unit costs. In addition to hardware, total costs include \$2M for ECP.										

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BUDGET ITEM JUSTIFICATION SHEET								DATE: FEBRUARY 1998																				
P-40																												
APPROPRIATION/BUDGET ACTIVITY OPN BA3 - AVIATION SUPPORT EQUIPMENT								P-1 ITEM NOMENCLATURE AN/SSQ-62 (DICASS) SONOBUOY PEO(A) PROGRAM NARM: #403200 SUBHEAD: U3QF																				
Program Element for Code B Items: B.A. 3 - AVIATION SUPPORT EQUIPMENT								Other Related Program Elements																				
	Prior Years*	ID Code	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total																
QUANTITY																												
COST (In Millions)	\$492.3		\$3.9	\$30.9	\$30.6	\$20.7	\$28.8	\$29.3	\$30.9	\$30.4	CONTINUING																	
<p>The AN/SSQ-62 (DICASS) Sonobuoy is a directional active sonobuoy that provides target bearing and range information on the submarine with each echo. The AN/SSQ-62E is an ECP to the AN/SSQ-62D incorporating the following changes: (1) Command Function Select (CFS), and (2) all four sonar channels in one sonobuoy.</p> <p>The FY96 contract was awarded to Sparton for a quantity of 1,384 AN/SSQ-62D's. The FY96 program included \$1.6M for an AN/SSQ-62D ECP.</p> <p>FY97 contracts were awarded to Sparton (18,542) and Hughes (3,472) for a total quantity of 22,014 AN/SSQ-62D's. The FY97 program included \$8.1M for an AN/SSQ-62E ECP.</p> <p>The FY98 program provides for 26,265 AN/SSQ-62E's to be competed among qualified manufacturers.</p> <p>The FY99 program provides for 15,243 AN/SSQ-62E's to be competed among qualified manufacturers.</p> <p>RESERVE FUNDING INCLUDED IN TOTAL (\$000)</p> <table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">FY96</td> <td style="text-align: center;">FY97</td> <td style="text-align: center;">FY98</td> <td style="text-align: center;">FY99</td> <td style="text-align: center;">FY00</td> <td style="text-align: center;">FY01</td> <td style="text-align: center;">FY02</td> <td style="text-align: center;">FY03</td> </tr> <tr> <td style="text-align: center;">70</td> <td style="text-align: center;">936</td> <td style="text-align: center;">711</td> <td style="text-align: center;">1,006</td> <td style="text-align: center;">1,150</td> <td style="text-align: center;">1,166</td> <td style="text-align: center;">1,234</td> <td style="text-align: center;">1,213</td> </tr> </table>													FY96	FY97	FY98	FY99	FY00	FY01	FY02	FY03	70	936	711	1,006	1,150	1,166	1,234	1,213
FY96	FY97	FY98	FY99	FY00	FY01	FY02	FY03																					
70	936	711	1,006	1,150	1,166	1,234	1,213																					

P-1 SHOPPING LIST

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CLASSIFICATION: **UNCLASSIFIED**

WEAPONS SYSTEM COST ANALYSIS							Weapon System						DATE:			
P-5							AN/SSQ-62 (DICASS) SONOBUOY						FEBRUARY 1998			
APPROPRIATION/BUDGET ACTIVITY							ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD								
Other Procurement, Navy							PEO(A) PROGRAM NARM #403200 SUBHEAD U3QF									
B.A. 3 - AVIATION SUPPORT EQUIPMENT																
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS													
			Prior Years	FY 1996			FY 1997			FY 1998			FY 1999			
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	
QF001	AN/SSQ-62 w/SLC*	A	\$438,079	1,384	\$1,364.30	\$3,533	22,014	\$914.86	\$28,243	26,265	\$1,046.87	\$27,497	15,243	\$1,206.97	\$18,398	
QF830	PRODUCTION ENGINEERING		\$24,668			195			1,599			1,305			1,104	
QF860	ACCEPTANCE TESTING		\$29,578			212			1,078			1,761			1,196	
* SONOBUOY LAUNCH CONTAINER																
** The FY97 program includes \$8.1M for an AN/SSQ-62E ECP. Also included is funding for silver.																
*** In addition to hardware, total costs include other items separately priced such as production line verifications, some design and/or production readiness reviews, qualification costs and data packages.																

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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System AN/SSQ-62 (DICASS) SONOBUOY		A. DATE FEBRUARY 1998			
B. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy B. A. 3 - AVIATION SUPPORT EQUIPMENT					C. P-1 ITEM NOMENCLATURE PEO(A) PROGRAM				SUBHEAD U3QF	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
FY96 AN/SSQ-62D w/SLC*	1,384	\$1,364.30	NSWC CRANE	10/95	C/FFP	SPARTON, FL	4/96	4/97	YES	
FY97 AN/SSQ-62D w/SLC*	18,542	\$873.60	NSWC CRANE	10/96	C/FFP	SPARTON, FL	4/97	4/98	YES	
AN/SSQ-62D w/SLC*	3,472	\$1,135.21	NSWC CRANE	10/96	C/FFP	HUGHES, IN	4/97	4/98	YES	
The FY97 program includes \$8.1M for an AN/SSQ-62E ECP.										
FY98 AN/SSQ-62E w/SLC*	26,265	\$1,046.87	NSWC CRANE	10/97	C/FFP	TBA	1/98	1/99	YES	
FY99 AN/SSQ-62E w/SLC*	15,243	\$1,206.97	NSWC CRANE	10/98	C/FFP	NOT SELECTED	12/98	10/99	YES	

D. REMARKS

In addition to hardware, total costs include other items separately priced such as production line verifications, some design and/or production readiness reviews, qualification costs and data packages.

The P-5A exhibit depicts only hardware quantities and unit costs.

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FY 1998/99 BUDGET PRODUCTION SCHEDULE, P-21										DATE FEBRUARY 1998				
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY					Weapon System AN/SSQ-62 (DICASS)					P-1 ITEM NOMENCLATURE PEO(A) PROGRAM NARM: #403200				
		Production Rate			Procurement Leadtimes									
Item	Manufacturer's Name and Location	MSR	1-8-5	MAX	ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure				
AN/SSQ-62	HUGHES, IN	0.25	2.6	8.0*		3	9		12	K				
	SPARTON, FL	0.25	8.0	8.0*		3	9		12	K				

ITEM / MANUFACTURER	F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 1997												FISCAL YEAR 1998												B A L			
						1996			CALENDAR YEAR 1997												CALENDAR YEAR 1998												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				
AN/SSQ-62 - HUGHES**	94		8.5	0.0	8.5	0.8			0.8		1.6	1.6	1.6		1.4	0.7												0.0					
SPARTON	94		13.7	0.0	13.7							3.3	3.3	3.3	1.6	2.2												0.0					
AN/SSQ-62 - SPARTON	95		22.4	9.9	12.5			3.4	1.7	1.7	2.9	2.8																0.0					
AN/SSQ-62 - SPARTON	96		1.4	0.0	1.4							0.3	0.3	0.2	0.2	0.2	0.2											0.0					
AN/SSQ-62 - SPARTON	97		18.5	0.0	18.5							A										2.0	2.0	2.0	2.0	2.1	2.1	6.3					
HUGHES	97		3.5	0.0	3.5							A										0.3	0.4	0.4	0.4	0.4	0.4	1.2					
AN/SSQ-62 - TBA	98		26.3	0.0	26.3														A									26.3					
AN/SSQ-62 - NOT SELECTED	99		15.2	0.0	15.2																							15.2					

The FY97 program includes \$8.1M for an AN/SSQ-62E ECP.

ITEM / MANUFACTURER	F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 1999												FISCAL YEAR 2000												B A L			
						1998			CALENDAR YEAR 1999												CALENDAR YEAR 2000												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				
AN/SSQ-62 - SPARTON	97		18.5	12.2	6.3	2.1	2.1	2.1																				0.0					
AN/SSQ-62 - HUGHES	97		3.5	2.3	1.2	0.4	0.4	0.4																				0.0					
AN/SSQ-62 - NOT SELECTED	98		26.3	0.0	26.3				2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.0	3.0											0.0					
AN/SSQ-62 - NOT SELECTED	99		15.2	0.0	15.2			A										1.2	1.2	1.2	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.0				

Remarks:
 * IF MOBILIZATION IS FOR MULTIPLE BUOY TYPES THEN THE MAXIMUM QUANTITY SHOULD BE REDUCED BY 30%-50%.
 ** EFFECTIVE 1 AUGUST 1996, MAGNAVOX HAS BEEN RENAMED HUGHES DEFENSE COMMUNICATIONS, IN

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BUDGET ITEM JUSTIFICATION SHEET P-40							DATE: FEBRUARY 1998					
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY							P-1 ITEM NOMENCLATURE AN/SSQ-101 (ADAR) PEO (A) PROGRAM NARM # 403600					
Program Element for Code B Items: Transitioning from R&D PROGRAM ELEMENT 0604261N in FY 99							Other Related Program Elements					
	Prior Years	ID Code	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total
QUANTITY												
COST (In Millions)	\$0		\$0.0	\$0.0	\$0.0	\$16.6	\$28.6	\$37.0	\$37.8	\$37.2	CONTINUING	
<p>The AN/SSQ-101 Air Deployable Active Receiver (ADAR) is a commandable, passive A-size sonobuoy with a horizontal planar array that can be deployed at different depths. The ADAR sonobuoy transmits beamformed digital data to all Air ASW platforms and is deployed as the Improved Extended Echo Ranging System's active receiver.</p> <p>The FY99 program provides for 3,764 AN/SSQ-101'S to be competed among qualified manufacturers.</p> <p>THERE IS NO RESERVE REQUIREMENT FOR THE SSQ-101.</p>												

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WEAPONS SYSTEM COST ANALYSIS P-5						Weapon System AN/SSQ-101 (ADAR) SONOBUOY							DATE: FEBRUARY 1998			
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA3 - AVIATION SUPPORT EQUIPMENT						ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD PEO(A) PROGRAM NARM #403600 SUBHEAD TBD									
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS													
			Prior Years	FY 1996			FY 1997			FY 1998			FY 1999			
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	
TBD	AN/SSQ-101 w/SLC*	B											3,764	\$3,908.89	\$14,713	
TBD	PRODUCTION ENGINEERING														905	
TBD	ACCEPTANCE TESTING														932	

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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System AN/SSQ-101 (ADAR) SONOBUOY		A. DATE FEBRUARY 1998			
B. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA3 - AVIATION SUPPORT EQUIPMENT					C. P-1 ITEM NOMENCLATURE PEO(A) PROGRAM				SUBHEAD TBD	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
FY99 AN/SSQ-101	3,764	\$3,908.89	NSWC CRANE	10/98	FFP/I	NOT SELECTED	3/99	3/00	NO	6/98
D. REMARKS										

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FY 1998/99 BUDGET PRODUCTION SCHEDULE, P-21											DATE February 1998		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY						Weapon System AN/SSQ-101 (ADAR)			P-1 ITEM NOMENCLATURE PEO(A) PROGRAM				
		Production Rate			Procurement Leadtimes								
Item	Manufacturer's Name and Location		MSR	1-8-5	MAX	ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure		
AN/SSQ-101 (ADAR)	NOT SELECTED		TBD	TBD	TBD		3	9		12	K		

ITEM / MANUFACTURER	F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 1997												FISCAL YEAR 1998												B A L
						1996			CALENDAR YEAR 1997									CALENDAR YEAR 1998												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
AN/SSQ-101 - NOT SELECTED	99		3.8		3.8																								3.8	

ITEM / MANUFACTURER	F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 1999												FISCAL YEAR 2000												B A L
						1998			CALENDAR YEAR 1999									CALENDAR YEAR 2000												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
AN/SSQ-101 (ADAR)	99		3.8		3.8						A																			

Remarks:

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BUDGET ITEM JUSTIFICATION SHEET P-40								DATE: FEBRUARY 1998				
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY							P-1 ITEM NOMENCLATURE AN/SSQ-110 (EER) SONOBUOY PEO(A) PROGRAM NARM # 403800					
Program Element for Code B Items:							Other Related Program Elements					
	Prior Years	ID Code	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total
QUANTITY			23,057	0	0	0	0	0	0	0	CONTINUING	
COST (In Millions)	\$53.2		\$20.7	\$1.9	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	CONTINUING	
<p>The AN/SSQ-110 is an air-dropped active source buoy to be used in conjunction with the AN/SSQ-77B and AN/SSQ-101 to perform Extended Echo Ranging (EER) system active search.</p> <p>The FY96 program is for 23,057 AN/SSQ-110A's. Awards were made to Sparton (3,000) and to Hughes (20,057).</p> <p>THERE IS NO RESERVE REQUIREMENT FOR THE SSQ-110A.</p>												

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ITEM NO. 125	PAGE NO. 2	

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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System AN/SSQ-110 (EER) SONOBUOY		A. DATE FEBRUARY 1998			
B. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy 3 - AVIATION SUPPORT EQUIPMENT - SONOBUOYS					C. P-1 ITEM NOMENCLATURE PEO(A) PROGRAM NARM #403800				SUBHEAD U3QK	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
FY96										
AN/SSQ-110A	3,000	\$998.26	NAWC IN	10/95	C/FFP	SPARTON, FL	5/96	5/97	YES	
	20,057	\$758.68	NAWC IN	10/95	C/FFP	HUGHES, IN	5/96	5/97	YES	
D. REMARKS										
EFFECTIVE 1 AUG 1996, MAGNAVOX HAS BEEN RENAMED HUGHES DEFENSE COMMUNICATIONS, IN.										

FY 1998/99 BUDGET PRODUCTION SCHEDULE, P-21														DATE FEBRUARY 1998																		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY														Weapon System AN/SSQ-110 (EER)					P-1 ITEM NOMENCLATURE PEO(A) PROGRAM													
						Production Rate			Procurement Leadtimes																							
Item		Manufacturer's Name and Location				MSR	1-8-5	MAX	ALT Prior to Oct 1			ALT After Oct 1			Initial Mfg PLT			Reorder Mfg PLT			Total	Unit of Measure										
AN/SSQ-110A		HUGHES, IN				0.25	8.8	24.0*				3			9						12	Thousand										
		SPARTON, FL				0.25	7.7	24.0*				3			9						12	Thousand										

ITEM / MANUFACTURER	F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 1997												FISCAL YEAR 1998												B A L
						1996			CALENDAR YEAR 1997									CALENDAR YEAR 1998												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
QK001 AN/SSQ-110A HUGHES	94		17.4	0	17.4	1.1	2.4	2.4	2.4	2.4	2.4	1.3	0.6		4.2	4.7	4.7	4.7	4.7	4.7	2.8							0		
QK001 AN/SSQ-110A HUGHES	95		43.9	0	43.9				1.8	0.6	0.9	1.2	1.2	3.0	0.8	0.8	0.8	0.6										0		
QK001 AN/SSQ-110A SPARTON	96		3.0	0	3.0							0.8	0.8		0.8	0.6											0			
HUGHES	96		20.1	0	20.1							1.7	1.7		1.7	1.7	1.7	1.7	1.7	3.3	3.2						0			

ITEM / MANUFACTURER	F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 1999												FISCAL YEAR 2000												B A L
						1998			CALENDAR YEAR 1999									CALENDAR YEAR 2000												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

Remarks:
*IF MOBILIZATION IS FOR MULTIPLE BUOY TYPES THEN MAXIMUM QUANTITY SHOULD BE REDUCED BY 33% - 50%

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BUDGET ITEM JUSTIFICATION SHEET P-40							DATE: FEBRUARY 1998																					
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY							P-1 ITEM NOMENCLATURE SIGNAL, UNDERWATER SOUND (SUS) PEO (A) PROGRAM NARM # 404500																					
Program Element for Code B Items:							Other Related Program Elements																					
	Prior Years	ID Code	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total																
QUANTITY																												
COST (In Millions)	\$22.7		\$0.0	\$1.1	\$0.0	\$1.3	\$0.0	\$1.4	\$0.0	\$1.6																		
<p>Signal, Underwater Sound devices are expendable, high energy acoustic sources. The MK 84 is a non-explosive, electro-acoustic device which is launched from aircraft and transmits acoustic tones after water entry. The MK 84 SUS is used for training and exercise signaling to submarines.</p> <p>The FY97 contract was awarded to Sparton for a quantity of 4,164.</p> <p>The FY99 program provides for 6,000 MK 84's to be competed among qualified manufacturers.</p> <p>RESERVE FUNDING INCLUDED IN TOTAL (\$000)</p> <table><tr><td>FY96</td><td>FY97</td><td>FY98</td><td>FY99</td><td>FY00</td><td>FY01</td><td>FY02</td><td>FY03</td></tr><tr><td>0</td><td>0</td><td>0</td><td>195</td><td>0</td><td>213</td><td>0</td><td>234</td></tr></table>													FY96	FY97	FY98	FY99	FY00	FY01	FY02	FY03	0	0	0	195	0	213	0	234
FY96	FY97	FY98	FY99	FY00	FY01	FY02	FY03																					
0	0	0	195	0	213	0	234																					

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WEAPONS SYSTEM COST ANALYSIS P-5							Weapon System SIGNAL UNDERWATER SOUND (SUS) MK 84							DATE: FEBRUARY 1998		
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy B.A. 3 - AVIATION SUPPORT EQUIPMENT							ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD PEO(A) PROGRAM NARM #404500 SUBHEAD U3QH								
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS													
			Prior Years	FY 1996			FY 1997			FY 1998			FY 1999			
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	
QH003	SUS MK 84	A	\$19,401				4,164	\$198.20	\$956	*				6,000	\$201.16	\$1,207
QH830	PRODUCTION ENGINEERING		1,665						63							48
QH860	ACCEPTANCE TESTING		1,666						66							47
* In addition to hardware, total costs include 131K for other items separately priced such as production line verifications, some design and/or production readiness reviews, qualification costs and data packages.																
			\$22,732			\$0			\$1,085			\$0				\$1,302

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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System SIGNAL, UNDERWATER SOUND		A. DATE FEBRUARY 1998			
B. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy B.A. 3 - AVIATION SUPPORT EQUIPMENT					C. P-1 ITEM NOMENCLATURE PEO(A) PROGRAM				SUBHEAD U3QH	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
FY97 *										
QH003 - SUS MK84	4,164	\$198.20	NSWC CRANE	8/96	C/FFP	Sparton, FL	3/97	10/98	YES	
FY99										
QH003 - SUS MK 84	6,000	\$201.16	NSWC CRANE	10/98	C/FFP	NOT SELECTED	12/98	10/99	YES	
D. REMARKS * In addition to the hardware costs, total costs include \$131K for other items separately priced such as production line verifications, some design and/or production readiness reviews, qualification costs and data packages. The P-5A exhibit depicts only hardware quantities and unit costs.										

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UNCLASSIFIED**BUDGET ITEM JUSTIFICATION SHEET****P-40**

DATE:

February 1998

APPROPRIATION/BUDGET ACTIVITY

OTHER PROCUREMENT, NAVY/ BA-3 Aviation Support EquipmentP-1 ITEM NOMENCLATURE **LI 420400****WEAPONS RANGE SUPPORT EQUIPMENT**

Program Element for Code B Items:

Other Related Program Elements

	Prior Years	ID Code	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total
QUANTITY												
COST (In Millions)	\$836.9		\$46.5	\$31.1	\$10.5	\$8.1	\$18.6	\$25.4	\$21.2	\$20.6	Cont.	Cont.

This budget line item provides the resources to implement the Navy Fleet Training Range (FTR) Instrumentation Program Plan. These FTRs provide the primary means of fleet combat readiness training. The plan addresses the following major procurement areas: Electronic Warfare (EW) simulators, Weapons Impact Scoring Set (WISS) Replacement, Systems Replacement and Modernization (SRAM), Tactical Aircrew Combat Training Systems (TACTS), Southern California (SOCAL) Communications Upgrade and generic systems such as range computer systems, underwater training range systems and range tracking, simulation, surveillance systems; and Large Area Tracking Range System (LATR System); Joint Tactical Combat Training System (JTCTS), and Mobile Remote Emitter System (MRES). The integral parts of these major range programs include but are not limited to the following: voice communications, weapons scoring systems, EW emitters/jammers, display consoles, radars, tracking subsystems, control/computation subsystems, display/debriefing subsystems, processors, HF/VHF/UHF receivers, transmitters/transceivers, multiplexers, intercom circuits, encoding devices, frequency interface control systems, power equipment, sonobouy tracking systems, bottom mounted underwater hydrophone systems, phase shift keying processors, and other specialized equipment.

Justification: Operational forces of the Navy's air, surface, and subsurface units are being equipped with the latest complex and sophisticated weapon systems to achieve and maintain high standards of fleet readiness. The FTRs must be furnished with training equipment capable of simulating, tracking, displaying, and debriefing the latest combat environments (e.g. electronic warfare). This equipment provides the Navy with the capability to: conduct safe fleet training exercises; achieve a high state of readiness; objectively evaluate training effectiveness as well as the strategy and tactics employed; evaluate the performance of equipment; and, to measure reliability and accuracy of operational weapon systems.

P-1 SHOPPING LIST

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BUDGET ITEM JUSTIFICATION SHEET P-40								DATE: February 1998				
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/ BA-3 Aviation Support Equipment							P-1 ITEM NOMENCLATURE LI 420400 WEAPONS RANGE SUPPORT EQUIPMENT					
Program Element for Code B Items:							Other Related Program Elements					
	Prior Years	ID Code	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total
QUANTITY												
COST (In Millions)	\$836.9		\$46.5	\$31.1	\$10.5	\$8.1	\$18.6	\$25.4	\$21.2	\$20.6	Cont.	Cont.
<p><u>SYSTEMS REPLACEMENT AND MODERNIZATION (SRAM):</u> The SRAM program provides for the procurement of numerous minor equipments/instrumentation needed at all Navy training ranges. SRAM procurements replace and modernize economically unmaintainable systems and equipment in order to increase range efficiency. Generally, the receiving activity will accomplish installation of these minor equipments; whereas, the more complex equipments may require installation support from other agencies. Funding for installation of minor equipment is required in all years at all ranges.</p> <p><u>TACTICAL AIRCREW COMBAT TRAINING SYSTEM (TACTS):</u> The TACTS was developed in the early 1970's in response to the large Aircrew losses in Vietnam. TACTS tracks aircraft and monitors weapon systems during training missions. Weapons simulations are run by the TACTS in response to aircrew actions. Results are displayed in real-time and recorded for post mission debrief. The original system was installed at Yuma, AZ and a follow-on system was installed at Oceana, VA. Navy Decision Coordinating Paper (NDCP) W0431-AA established a requirement to continue development of new training techniques and capabilities through TACTS upgrades. The USAF has adopted the TACTS, renamed the Air Combat Maneuvering Instrumentation (ACMI), and more recently the Air Combat Training System (ACTS), as their standard aircrew training system. The latest generation 36 A/C system achieved an initial operating capability at Fallon NV in 1985. Other 36 A/C systems have been installed at Cherry Point, NC and Beaufort, SC. The Yuma and Oceana systems have also been upgraded to the 36 A/C configuration.</p> <p>The FY 1997 program will replace the Control and Computational Subsystems (CCSs) at Fallon, Cherry Point, Beaufort, and Yuma TACTS. The older computers currently used in the CCSs at these ranges are expensive to maintain and lack the processing capacity required to fully support recent and planned software enhancements.</p> <p>The Tactical Aircrew Combat Training System (TACTS) Advanced Display and Debriefing Subsystem (ADDS) displays information used to monitor range flight activities in real time and to conduct post mission debriefs. The ADDS provides graphic three dimensional and tabular data during real time and post flight operation. FY 2000 funding will improve performance. In an effort to improve the ADDS user interface, provide hardware improvements in the areas of data transfer and storage, system administration, graphic displays and networking.</p> <p>The Oceana TACTS Master Station at Bodie Island requires a significant upgrade due to its age and outdated structural standards. Dangerous conditions exist when the tower is subjected to structural loading extremes from ice and wind conditions. These conditions prohibit the addition of new radio equipment or microwave dishes to</p>												

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BUDGET ITEM JUSTIFICATION SHEET P-40								DATE: February 1998				
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/ BA-3 Aviation Support Equipment							P-1 ITEM NOMENCLATURE LI 420400 WEAPONS RANGE SUPPORT EQUIPMENT					
Program Element for Code B Items:							Other Related Program Elements					
	Prior Years	ID Code	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total
QUANTITY												
COST (In Millions)	\$836.9		\$46.5	\$31.1	\$10.5	\$8.1	\$18.6	\$25.4	\$21.2	\$20.6	Cont.	Cont.
<p>support program requirements. Specifically, the LATR and Littoral Warfare Training Center (LWTC) communications needs can not be served with the state of the existing tower. An upgraded tower will be integrated into a previously established government datalink and will directly support the LWTC communications bandwidth requirements.</p> <p><u>SHALLOW WATER RANGE (SW RANGE):</u> Existing underwater ranges are situated in deep water and cannot provide training in Anti-Submarine Warfare (ASW) tactics employed in shallow coastal waters. A Mission Needs Statement (MNS) for Shallow Water training instrumentation has been endorsed by both Atlantic and Pacific fleets and signed by N8: Fixed instrumentation is required to preclude the recurring cost of periodic retrieval and maintenance of mobile systems. FY 1997 funds the LANTFLT requirement for the procurement of the initial increment of a 125 square Nautical Miles (NM) shallow water range and range control equipment at Onslow Bay, NC.</p> <p><u>COMMUNICATIONS UPGRADE (TWENTYNINE PALMS):</u> Certain training sites within the Twentynine Palms' operating area do not have communications with the Twentynine Palms BEARMAT control facility. FY 1997 funding will procure eight solar powered communications suites and a backbone microwave link back to BEARMAT for continuous communications with aircraft and ground personnel operating throughout the Twentynine Palms operating area. Installation support for FY97 is for site preparation at Twentynine Palms.</p> <p><u>LOW ALT SURV RADAR (LASR)</u> Due to the elevation of the San Clemente radar on Mt. Thurst and the terrain between Mt. Thurst and the water, blind spots exist in the low level and surface radar coverage of the ASW and Range Electronic Warfare Simulator (REWS) range areas. It is in these low-level blind areas that much of the work with helicopters and surface craft takes place. Air and surface safety surveillance data is required in the SOCAL operating area south and west of San Clemente Island from the radar horizon from Mt. Thurst and from the surface to 5,000 feet. FY 2000 will fund the procurement of (1) low level surveillance radar to cover existing blind spots at San Clemente.</p>												

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BUDGET ITEM JUSTIFICATION SHEET P-40								DATE: February 1998				
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/ BA-3 Aviation Support Equipment							P-1 ITEM NOMENCLATURE LI 420400 WEAPONS RANGE SUPPORT EQUIPMENT					
Program Element for Code B Items:							Other Related Program Elements					
	Prior Years	ID Code	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total
QUANTITY												
COST (In Millions)	\$836.9		\$46.5	\$31.1	\$10.5	\$8.1	\$18.6	\$25.4	\$21.2	\$20.6	Cont.	Cont.
<p>LATR SYSTEM</p> <p>LATR ACM RETROFIT</p> <p>The Air Combat Maneuvering (ACM) capability is being developed as an Engineering Change Proposals (ECPs) to the PMRF LATR in FY97. This upgrade provides weapon simulations for air-to-air and air-to-ground training exercises. The upgrade is primarily a software modification to the existing baseline with only minor hardware changes. This upgrade will be retrofitted to the Virginia Capes (VACAPES) and Southern California Offshore Range (SCORE) Range in FY2001.</p> <p>LATR INTEGRATION FACILITY (LIF)</p> <p>The LATR Integration Facility Software Support Activity (LIF) (SSA) provides hardware/software support for the three LATR training ranges at VACAPES, SCORE, AND PMRF. An upgrade is needed to the existing system to provide an operational system that can be used for hardware/software developments without having to go to an operational range for final integration and testing. The LIF requires additional communication and LATR hardware to obtain this capability.</p> <p>LATR VEHICLE INSTRUMENTATION PACKAGES (VIPs)</p> <p>A low cost instrumentation package is needed to track ground vehicles during training exercises without using expensive airborne or shipboard Participant Instrumentation Packages (PIPs) developed for the LATR system. The Vehicle Instrumentation Packages (VIPS) are developed using a Global Positioning System (GPS) receiver and a transponder/radio that interfaces with the current LATR system, thereby providing realtime tracking data back to the range operation center.</p>												

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BUDGET ITEM JUSTIFICATION SHEET								DATE: February 1998				
P-40												
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/ BA-3 Aviation Support Equipment							P-1 ITEM NOMENCLATURE LI 420400 WEAPONS RANGE SUPPORT EQUIPMENT					
Program Element for Code B Items:							Other Related Program Elements					
	Prior Years	ID Code	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total
QUANTITY												
COST (In Millions)	\$836.9		\$46.5	\$31.1	\$10.5	\$8.1	\$18.6	\$25.4	\$21.2	\$20.6	Cont.	Cont.
<p>LATR UPGRADE AT SCORE</p> <p>During the testing of the LATR system at SCORE, the Radio Frequency Interference (RFI) was so great that LATR was unable to establish and maintain the links required to transmit data. This made LATR inoperable at SCORE. FY-99 funding has been provided for a three phased approach which will convert the SCORE instrumentation to a new frequency which has been demonstrated to rectify the problem. Phase one changes the frequency of instrumentation currently being procured. Phase two would procure the additional instrumentation to permit SCORE to be independent. Phase three would convert all the remaining instrumentation at SCORE to the new frequency.</p> <p>TELEMETRY EQUIPMENT:</p> <p>The Telemetry Equipment program will upgrade and modernize equipment, inclusive of related target control systems/equipment, at Fleet Telemetry (TM) stations and the Pacific Missile Range Facility (PMRF). These stations are located in Greece, Puerto Rico, Virginia and Hawaii. Present telemetry stations are based on telemetry requirements established in the early 1970s. Since then, missiles have advanced in sophistication and complexity including a move from analog to digital technology. Prior year funding has provided modest on-going improvements and modernization programs to replace least reliable equipment's and meet the most urgent telemetry requirements for new weapon systems. The only exception being the Puerto Rico Station. Consequently, the stations have become increasingly difficult and expensive to maintain and are not suited to handling the new digital TM formats required by new emerging weapon systems.</p> <p>FY 1997 funding will continue to upgrade the tracking processing, and display elements of Portable Airlaunched Missile Telemetry Acquisition System (PATAS) and upgrade the AFWTF TM station.</p>												

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BUDGET ITEM JUSTIFICATION SHEET P-40							DATE: February 1998					
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/ BA-3 Aviation Support Equipment							P-1 ITEM NOMENCLATURE LI 420400 WEAPONS RANGE SUPPORT EQUIPMENT					
Program Element for Code B Items:							Other Related Program Elements					
	Prior Years	ID Code	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total
QUANTITY												
COST (In Millions)	\$836.9		\$46.5	\$31.1	\$10.5	\$8.1	\$18.6	\$25.4	\$21.2	\$20.6	Cont.	Cont.
<u>JOINT TACTICAL COMBAT TRAINING SYSTEM (JTCTS)</u> The Joint Tactical Combat Training System (JTCTS) will procure fixed, transportable, and mobile range instrumentation equipment for the USN and USAF for both shore-based (aircrew training) and deployable (ship/sub/aircrew training) applications. JTCTS instrumentation will transmit exercise scenarios; simulate/stimulate all exercise participants sensors/weapons with the exercise scenario; track all exercise participants and events, e.g., weapons engagements; and, provide accurate, realistic, and timely feedback. JTCTS is building on technology developed for existing tactical training range systems including the Tactical Aircrew Combat Training System, Mobile Sea Range, Large Area Tracking Range, and the capabilities developed for the Battle Force Tactical Trainer program. JTCTS incorporates the Defense Modeling and Simulation Office sponsored Distributed Interactive Simulation protocol data unit and the High Level Architecture for interoperability with Navy and other service live, virtual (simulators), and constructive (war games) simulations.												
<u>MOBILE REMOTE EMITTER SYSTEM (MRES)</u> The Mobile Remote Emitter System (MRES) is a high power Electronic Warfare simulator system capable of illuminating aircraft, ships, and various other signal collection platforms, with emitters from 2 to 18 GHz. The system will also be capable of receiving active Electronic Countermeasures (ECM) transmissions from 500MHz to 18 GHz for spectrum viewing and evaluation of ECM techniques. The MRES will use the Large Area Tracking Range (LATR) system and/or video and Identifying Friend or Foe (IFF) tracking modes for position pointing sources.												
The MRES system will be capable of generating threat scenarios to support non-instrumented test and training sites and also support Navy and Joint exercises. The MRES will be a ruggedized, highly reliable and maintainable system. It will consist of off-the-shelf components incorporating minor modifications as necessary to meet unique mission support areas. It will have a VHF/UHF communications system to provide voice and data exchange with the test platform or exercise coordinator and Range Control facility. The FY 98 funding will provide for one system.												

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BUDGET ITEM JUSTIFICATION SHEET FOR AGGREGATED ITEMS P-40a										DATE: February 1998		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/ BA-3 Aviation Support Equipment				P-1 ITEM NOMENCLATURE								
Procurement Items	ID Code	Prior Years	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total
REWS												
QUANTITY												1
COST (In Thousands)		14,637										14,637
MACCS												
QUANTITY												1
COST (In Thousands)		11,205										11,205
THREAT EMITTERS												
QUANTITY			5									10
COST (In Thousands)		65,933	3,188									69,121
AVENGER												
QUANTITY												4
COST (In Thousands)		1,898										1,898
WISS												
QUANTITY			15									24
COST (In Thousands)		3,919	8,073									11,992
TACTS												
FALLON/NELLIS												
QUANTITY												1
COST (In Thousands)		1,923										1,923
YUMA LOW TACTS												
QUANTITY			1									1
COST (In Thousands)			586									586
CHERRY PT UPGRADE												
QUANTITY			1									1
COST (In Thousands)			1,439									1,439
TACTS CONTROL												
QUANTITY				4								4
COST (In Thousands)				1,250								1,250
BODIE ISLAND UPGRADE/LWTC DATALINK												
QUANTITY							1					1
COST (In Thousands)						767	795	480				2,042
ADDS/HW UPGRADE												
QUANTITY							22	23				45
COST (In Thousands)							971	967				1,938
SW RANGE (LANT)												
QUANTITY				1					1			
COST (In Thousands)				12,464				674	6,285	1,054	CONT	CONT

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BUDGET ITEM JUSTIFICATION SHEET FOR AGGREGATED ITEMS P-40a									DATE: February 1998			
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/ BA-3 Aviation Support Equipment							P-1 ITEM NOMENCLATURE					
Procurement Items	ID Code	Prior Years	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total
SW RANGE (PAC)												
QUANTITY								1		1		
COST (In Thousands)							1,650	12,190	2,115	8,059	CONT	CONT
SOCAL COMM UPGRADE												
QUANTITY												
COST (In Thousands)		1,612	5,899									9,123
CCN II												
QUANTITY												1
COST (In Thousands)		6,000										6,000
PMRF UPGRADE												
QUANTITY			1									2
COST (In Thousands)		33,246	9,462									75,954
MAGICC												
QUANTITY									1	1		2
COST (In Thousands)									482	480		962
LATR SYSTEM												
LATR UPGRADE SCORE												
QUANTITY						49	73					122
COST (In Thousands)						1,084	1,941					3,025
LATR ACM RETROFIT												
QUANTITY				1				2				3
COST (In Thousands)				4,226				387				4,613
LATR VIPS												
QUANTITY							33		33			66
COST (In Thousands)							483		482			965
LATR INTEGRATION FACILITY												
QUANTITY												
COST (In Thousands)							274	211				485
LITTORAL WARFARE TRAINING COMPLEX												
MAEWR ROCC												
QUANTITY												1
COST (In Thousands)		318										318

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WEAPONS SYSTEM COST ANALYSIS P-5						Weapon System						DATE: February 1998			
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA-3 Aviation Support Equipment						ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD 43SC WEAPONS RANGE SUPPORT EQUIPMENT								
COST CODE	ELEMENT OF COST	ID Code	Prior Years	FY 1996		FY 1997			FY 1998			FY 1999			
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
			SC001	REWS	N/A	14,637									
SC002	AIRCREW EW TRAINING RANGES MACCS (Cherry Point) Yuma: Threat Emitters Comm System Interface Avenger MRES	N/A	79,036			[3,188]									
				5	637.6	3,188									
SC003	WISS REPLACEMENT	N/A	3,919	15	538.2	8,073									
SC004	SYSTEMS REPLACEMENT AND MODERNIZATION (SRAM)	N/A	35,012		N/A	5,426		N/A	5,535		N/A	2,073		N/A	3,029

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WEAPONS SYSTEM COST ANALYSIS P-5							Weapon System								DATE: February 1998	
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA-3 Aviation Support Equipment							ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD 43SC WEAPONS RANGE SUPPORT EQUIPMENT								
COST CODE	ELEMENT OF COST	ID Code														
			Prior Years	FY 1996			FY 1997			FY 1998			FY 1999			
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	
SC007	TACTICAL AIRCREW COMBAT TRAINING SYSTEM (TACTS) Fallon/Nellis Microwave Link Yuma Low Altitude TACTS Tracking Cherry Point Upgrade TACTS Control & Computational Subsystem (CCS) BODIE ISLAND UPGRADE/LWTC DATALINK	N/A	35,921			[2,025]			[1,250]				N/A		767	
SC012	SW RANGE (LANT) EAST COAST PHASE ONE						1	12,464	12,464							
SC018	COMM UPGRADE (TWENTYNINE PALMS)						N/A		787							
SC027	CCN II		6000													
SC028	PACIFIC MISSILE RANGE FACILITY UPGRADE (PMRF)	N/A	33246	1	9,462	9,462										
SC034	LATR SYSTEM LATR ACM RETROFIT LATR UPGRADE SCORE	N/A					1	4,226	4,226				49	22.12	1,084	
SC037	SOCAL COMM UPGRADE	N/A	1612	N/A		5,899										

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WEAPONS SYSTEM COST ANALYSIS P-5							Weapon System								DATE: February 1998	
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA-3 Aviation Support Equipment							ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD 43SC WEAPONS RANGE SUPPORT EQUIPMENT								
COST CODE	ELEMENT OF COST	ID Code														
			Prior Years	FY 1996			FY 1997			FY 1998			FY 1999			
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	
SC040	LITTORAL WARFARE TRAINING COMPLEX	N/A	1540			[719]										
	MAEWR ROCC		318													
	Low Alt Tracking MCB Camp Lejeune		1,008													
	Comm Suite			1	719	719										
SC601	TELEMETRY	N/A	12,822	N/A		1,203	N/A		999							
SC831	PRODUCTION ENGINEERING, OTHER RANGES	N/A	65,202	N/A		5,891	N/A		2,925	N/A		1,505	N/A		1,562	
SC860	ACCEPTANCE TEST & EVALUATION	N/A	4,539	N/A		1,082	N/A		1,083	N/A		205	N/A		150	
SC971	ILS, OTHER RANGES	N/A	28,291	N/A		2,072	N/A		1,034	N/A		741	N/A		375	
SC900	INSTALLATION OF EQUIP-NON FMP	N/A	6,570	N/A		1,473	N/A		815	N/A		195	N/A		1,097	
	VARIOUS 1/		496,281													
1/ The amount identified against this cost element reflects total prior year funding associated with cost elements no longer financed in FY 1995 and beyond.																
			836,908			46,513			31,118			10,548			8,064	

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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)						Weapon System		A. DATE February 1998		
B. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA-3 AVIATION SUPPORT EQUIPMENT					C. P-1 ITEM NOMENCLATURE WEAPONS RANGE SUPPORT EQUIPMENT				SUBHEAD 43SC	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	IF NO WHEN AVAILABLE
<u>SC002 MRES</u>	1998 1	5,829	NAWCAD PAX	5/98	FFP/PX	TBD	8/98	1/00	NO	Mar-98
<u>SC004 SYS REPL & MOD</u>										
	1997 N/A	5,535	FED IND SUP CTR	VARIOUS	VARIOUS	VARIOUS	*	08/97	YES	N/A
	1998 N/A	2,073	FED IND SUP CTR	VARIOUS	VARIOUS	VARIOUS	*	08/98	YES	N/A
	1999 N/A	3,029	FED IND SUP CTR	VARIOUS	VARIOUS	VARIOUS	*	08/99	YES	N/A
D. REMARKS										
*SRAM consists of approximately 70 projects each FY with award dates starting when funds are released and continuing until 31 MARCH of current FY.										

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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)						Weapon System		A. DATE		
AVIATION SUPPORT EQUIPMENT								February 1998		
B. APPROPRIATION/BUDGET ACTIVITY					C. P-1 ITEM NOMENCLATURE				SUBHEAD	
Other Procurement, Navy					WEAPONS RANGE SUPPORT EQUIPMENT				43SC	
BA-3 Aviation Support Equipment										
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	IF NO WHEN AVAILABLE
<u>SC007 TACTS</u>										
TACTS CCS 1997	4	312.5	NAWCWD CHINA LAKE	N/A	PX	NAWCWD CHINA LAKE	01/97	10/98	YES	N/A
BODIE ISLAND UPG/LWTC DATALINK 1999	N/A	767	NAVAIR	4/98	FFP	TBD	10/98	5/99	YES	N/A
<u>SC012 SW RANGE 1997</u>	1	12,464	NAVAIR	2/14/97	CPIFAF	SAIC/MARI PRO	09/97	07/99	YES	N/A
<u>SC018 COMM UPGRADE</u>										
TWENTY-NINE PALMS 1997	N/A	**787	NWAD, CORONA	N/A	PX	MOTOROLA, INC SCOTTSDALE, AZ	11/96	10/97	YES	N/A
<u>SC034 LATR SYSTEM</u>										
LATR ACM RETROFIT 1997	1	4,226	NAWCADPAX	10/97	FFP	SAIC	12/97	6/99	YES	N/A
LATR UPGRADE SCORE 1999	49	22.1	NAWCAD PAX	06/98	FFP	SAIC, SAN DIEGO	11/98	10/99	YES	N/A
<u>SC601 TELEMETRY</u>										
1997	N/A	**999	NWAD, CORONA	VARIOUS	C/FFP/PO	VARIOUS	01/97	06/98	YES	N/A
D. REMARKS										
**Total cost is shown, Unit cost will vary by site, due to unique turnkey installation requirements and telemetry site unique missions and resulting configurations.										

FY 1998/99 BUDGET PRODUCTION SCHEDULE, P-21						DATE		February 1998									
APPROPRIATION/BUDGET ACTIVITY						Weapon System		P-1 ITEM NOMENCLATURE 43SC									
OTHER PROCUREMENT, NAVY/ BA-3 Aviation Support Equipmen								WEAPONS RANGE SUPPORT EQUIPMENT									
						Production Rate			Procurement Leadtimes								
Item	Manufacturer's Name and Location					MSR	1-8-5	MAX	ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure			
TACTS CCS	NAWC-WD CHINA LAKE																
SW RANGE	SAIC/MARI PRO, GOLETA, CA																
MRES	TBD																
LATR UPGRADE SCORE	SAIC, SAN DIEGO																
BODIE ISLAND UPG/LWTC DATALINK	TBD																
ADDS H/W UPGRADE	TBD																
LATR VIPS	NAWC-AD PAX																
JTCTS	RAYTHEON, PORTSMOUTH, RI																

ITEM / MANUFACTURER	F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 1997												FISCAL YEAR 1998												B A L
						1996			CALENDAR YEAR 1997									CALENDAR YEAR 1998												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
TACTS CCS	97	N	4	0	4				A																		4			
SW RANGE	97	N	1	0	1																						1			
MRES	98	N	1	0	1																				A	1				
LATR UPGRADE SCORE	99	N	49	0	49																					49				

ITEM / MANUFACTURER	F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 1999												FISCAL YEAR 2000												B A L
						1998			CALENDAR YEAR 1999									CALENDAR YEAR 2000												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
TACTS CCS	97	N	4	0	4	1	1	2																			0			
SW RANGE	97	N	1	0	1											1										0				
MRES	98	N	1	0	1																					0				
LATR UPGRADE SCORE	99	N	49	0	49			A																		0				
BODIE ISLAND UPGRADE/LWTC DATALINK	99	N	1	0	1	A							1													0				

Remarks:

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Exhibit P-20, Requirements Study				APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY BA3-AVIATION SUPPORT EQUIP			DATE: February 1998	
P-1 ITEM NOMENCLATURE SC007 TACTS CCS				Admin Leadtime (after Oct1): 4 MONTHS			Prod Leadtime : 21 MONTHS	
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
Buy Summary		4						
Unit Cost		312.50						
Total Cost	0	1,250						
Asset Dynamics								
Beginning Asset Position		0	0	0	4	4	4	4
Deliveries from all prior year funding								
Deliveries from FY 1997 funding			0	4	0	0	0	0
Deliveries from FY 1998 funding								
Deliveries from FY 1999 funding								
Deliveries from subsequent years' funding								
Other Gains								
Combat Losses/Usage								
Training Losses/Usage								
Test Losses/Usage								
Other Losses/Usage								
Disposals/Retirements/Attritions/etc.								
End of Year Asset Position	0	0	0	4	4	4	4	4
Inventory Objective or Current Authorized Allowance	0	4	4	4	4	4	4	4
Inventory Objective 4	Actual Training Expenditures 0	Other than Training Usage 0	Disposals (Vehicles/Other) N/A	Vehicles Eligible for FY 1998 Replacement: N/A	Aircraft: TOAI: N/A			
Assets Rqd For Combat Loads:	FY 1996 thru XXXXX:	FY 1996 thru XXXXX:	FY 1996 thru XXXXX:	Vehicles Eligible for FY 1999 Replacement:	PAA: TAI			
WRM Rqmt:	FY 1995:	FY 1995:	FY 1995:	Vehicle Augment:	Attrition Res:			
Pipeline:	FY 1994:	FY 1994:	FY 1994:		BAI			
Other:	FY 1993:	FY 1993:	FY 1993:		Inactive Inv:			
TOTAL:					Storage:			
Remarks:								

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Exhibit P-20, Requirements Study				APPROPRIATION/BUDGET ACTIVITY			DATE:	
				OTHER PROCUREMENT, NAVY BA3-AVIATION SUPPORT EQUIP			February 1998	
P-1 ITEM NOMENCLATURE				Admin Leadtime (after Oct1):			Prod Leadtime :	
SC012 SHALLOW WATER RANGE				9 MONTHS			25 MONTHS	
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
Buy Summary		1-EAST COAST PHASE 1				1-WEST COAST	1-EAST COAST	1- WEST COAST
						PHASE 1	PHASE 2	PHASE 2
Unit Cost		12,464				12,864	8,400	9,113
Total Cost		12,464			1,650	12,864	8,400	9,113
Asset Dynamics								
Beginning Asset Position	0	0	0	0	1	1	1	1
Deliveries from all prior year funding								
Deliveries from FY 1997 funding				1-EAST COAST PHASE 1	0	0	0	0
Deliveries from FY 1998 funding								
Deliveries from FY 1999 funding								
Deliveries from subsequent years' funding	0	0	0	0	0	0		1-WEST COAST
								PHASE 1
Other Gains								
Combat Losses/Usage								
Training Losses/Usage								
Test Losses/Usage								
Other Losses/Usage								
Disposals/Retirements/Attritions/etc.								
End of Year Asset Position	0	0	0	1	1	1	1	2 PHASES
Inventory Objective or Current Authorized Allowance	0	3	3	3	3	3	3	3
Inventory Objective 3*	Actual Training Expenditures 0	Other than Training Usage 0	Disposals (Vehicles/Other) N/A	Vehicles Eligible for FY 1998 Replacement: N/A	Aircraft: TOAI: N/A			
Assets Rqd For Combat Loads:	FY 1996 thru XXXXX:	FY 1996 thru XXXXX:	FY 1996 thru XXXXX:	Vehicles Eligible for FY 1999 Replacement:	PAA: TAI			
WRM Rqmt:	FY 1995:	FY 1995:	FY 1995:	Vehicle Augment:	Attrition Res:			
Pipeline:	FY 1994:	FY 1994:	FY 1994:		BAI			
Other:	FY 1993:	FY 1993:	FY 1993:		Inactive Inv:			
TOTAL:								Storage:
Remarks: *Inventory Objective is 3 as follows: 1. East Coast (4 Phases) 2. West Coast (3 Phases) 3. WestPac (1 Phase)								

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Exhibit P-20, Requirements Study				APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY BA3-AVIATION SUPPORT EQUIP			DATE: February 1998	
P-1 ITEM NOMENCLATURE SC007 BODIE ISLAND UPGRADE/LWTC DATALINK				Admin Leadtime (after Oct1): 4 MONTHS			Prod Leadtime : 6 MONTHS	
FY 95	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
Buy Summary				0	1	0		
Unit Cost					795			
Total Cost				767	795	480		
Asset Dynamics								
Beginning Asset Position				0	0	1	1	1
Deliveries from all prior year funding FY 96								
Deliveries from FY 1997 funding								
Deliveries from FY 1998 funding								
Deliveries from FY 1999 funding								
Deliveries from subsequent years' funding					1	0	0	0
Other Gains								
Combat Losses/Usage								
Training Losses/Usage								
Test Losses/Usage								
Other Losses/Usage								
Disposals/Retirements/Attritions/etc.								
End of Year Asset Position					1	1	1	1
Inventory Objective or Current Authorized Allowance					1	1	1	1
Inventory Objective 1	Actual Training Expenditures	Other than Training Usage	Disposals (Vehicles/Other)	Vehicles Eligible for FY 1998 Replacement:	Aircraft: TOAI:			
Assets Rqd For Combat Loads:	FY 1996 thru XXXXX:	FY 1996 thru XXXXX:	FY 1996 thru XXXXX:	Vehicles Eligible for FY 1999 Replacement:	PAA: TAI			
WRM Rqmt:	FY 1995:	FY 1995:	FY 1995:	Vehicle Augment:	Attrition Res:			
Pipeline:	FY 1994:	FY 1994:	FY 1994:		BAI			
Other:	FY 1993:	FY 1993:	FY 1993:		Inactive Inv:			
TOTAL:					Storage:			
Remarks:								

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Exhibit P-20, Requirements Study				APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY BA3-AVIATION SUPPORT EQUIP			DATE: February 1998	
P-1 ITEM NOMENCLATURE SC034 LATR UPGRADE SCORE				Admin Leadtime (after Oct1): 2 MONTHS			Prod Leadtime : 11 MONTHS	
FY 95	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
Buy Summary				49	73			
Unit Cost				22.12	26.59			
Total Cost				1,084	1,941			
Asset Dynamics								
Beginning Asset Position				0	0	49	122	122
Deliveries from all prior year funding FY 96								
Deliveries from FY 1997 funding								
Deliveries from FY 1998 funding								
Deliveries from FY 1999 funding					49			
Deliveries from subsequent years' funding						73	0	0
Other Gains								
Combat Losses/Usage								
Training Losses/Usage								
Test Losses/Usage								
Other Losses/Usage								
Disposals/Retirements/Attritions/etc.								
End of Year Asset Position				0	49	122	122	122
Inventory Objective or Current Authorized Allowance				122	122	122	122	122
Inventory Objective 122	Actual Training Expenditures	Other than Training Usage	Disposals (Vehicles/Other)	Vehicles Eligible for FY 1998 Replacement:			Aircraft: TOAI:	
Assets Rqd For Combat Loads:	FY 1996 thru XXXXX:	FY 1996 thru XXXXX:	FY 1996 thru XXXXX:	Vehicles Eligible for FY 1999 Replacement:			PAA: TAI	
WRM Rqmt:	FY 1995:	FY 1995:	FY 1995:	0	Vehicle Augment:			Attrition Res:
Pipeline:	FY 1994:	FY 1994:	FY 1994:					BAI
Other:	FY 1993:	FY 1993:	FY 1993:					Inactive Inv:
TOTAL:								Storage:
Remarks:								

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Exhibit P-20, Requirements Study				APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY BA3-AVIATION SUPPORT EQUIP			DATE: February 1998	
P-1 ITEM NOMENCLATURE SC002 MRES				Admin Leadtime (after Oct1): 3 MONTHS			Prod Leadtime : 18 MONTHS	
FY 95	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
Buy Summary			1					
Unit Cost			5,829					
Total Cost			5,829					
Asset Dynamics								
Beginning Asset Position			0	0	0	1	1	1
Deliveries from all prior year funding FY 96								
Deliveries from FY 1997 funding								
Deliveries from FY 1998 funding			0	0	1	0	0	0
Deliveries from FY 1999 funding								
Deliveries from subsequent years' funding								
Other Gains								
Combat Losses/Usage								
Training Losses/Usage								
Test Losses/Usage								
Other Losses/Usage								
Disposals/Retirements/Attritions/etc.								
End of Year Asset Position			0	0	1	1	1	1
Inventory Objective or Current Authorized Allowance			0	0	1	1	1	1
Inventory Objective 1	Actual Training Expenditure: 0	Other than Training Usage 0	Disposals (Vehicles/Other) N/A		Vehicles Eligible for FY 1998 Replacement: N/A		Aircraft: TOAI:	
Assets Rqd For Combat Loads:	FY 1996 thru XXXXX:	FY 1996 thru XXXXX:	FY 1996 thru XXXXX:		Vehicles Eligible for FY 1999 Replacement:		PAA: TAI	
WRM Rqmt:	FY 1995:	FY 1995:	FY 1995: 0		Vehicle Augment:		Attrition Res:	
Pipeline:	FY 1994:	FY 1994:	FY 1994:				BAI	
Other:	FY 1993:	FY 1993:	FY 1993:				Inactive Inv:	
TOTAL:							Storage:	
Remarks:								

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BUDGET ITEM JUSTIFICATION SHEET P-40								DATE: FEBRUARY 1998				
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/ BA-3 Aviation Support Equipment							P-1 ITEM NOMENCLATURE EXPEDITIONARY AIRFIELDS					
Program Element for Code B Items: 0603512N							Other Related Program Elements					
	Prior Years	ID Code	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total
QUANTITY												
COST (In Millions)	\$121.0		\$6.0	\$1.5	\$1.2	\$5.0	\$3.0	\$7.7	\$7.9	\$8.0	Continuing	Continuing
<p>EXPEDITIONARY AIRFIELDS (EAF)</p> <p>This program provides for procurement of aircraft recovery equipment, landing mat and accessories, airfield lighting, and Visual Landing Aids for Naval Aviation Expeditionary Airfields (EAF).</p> <p>This core funding level directly supports the procurement and fielding of operational expeditionary airfield systems in the three active duty Marine Aircraft Wings and one Reserve Marine Aircraft Wing, testing and training installations, and provides assets for use by the Marine Expeditionary Forces during contingency operations.</p> <p>A Total of twenty-eight (28) mobile arresting gear systems, as well as associated equipment, accessories, and service changes are procured and fielded with these funds. Equipment procurements are based on inventory shortfalls, product improvements required to fill or correct known deficiencies, and EAF equipment modernization required to improve maintainability, reliability and safety-of-flight, and to keep pace with new aircraft and aircraft systems modifications. Additionally, equipment procurements will facilitate forward deployment of EAF systems aboard Rapid Deployment Force/Maritime Prepositioning Force (RDF/MPF) ships; this is an operational requirement under the Maritime Corps Master Plan, the Enhanced Maritime Prepositioning Squadron (EMPS) requirement, and the EAF 2000 concept.</p> <p>The FY 1997 program provided for service change kit procurements of F-70 tool kits to accommodate pre-positioning EAF assets on MPS, refurbishment of M-21 arresting gear, and PE and ILS for EAF procurement products.</p> <p>The FY 1998 budget request provides for service change kit procurements for Minimum Operating Strip Lighting Systems (MOSLS), PE, and ILS for EAF procurement products.</p> <p>The FY 1999 budget request provides for service change kit procurements for Minimum Operating Strip Lighting Systems (MOSLS), Flatrack service changes to accommodate positioning EAF assets on MPS, and PE and ILS for EAF procurement products.</p>												

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WEAPONS SYSTEM COST ANALYSIS P-5						Weapon System								DATE: FEBRUARY 1998	
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA3 - Aviation Support Equipment						ID Code		P-1 ITEM NOMENCLATURE/SUBHEAD EXPEDITIONARY AIRFIELDS / 43SE							
COST CODE	ELEMENT OF COST	ID Code													
			Prior Years	FY 1996			FY 1997			FY 1998			FY 1999		
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
SE010	Service Change Kits	A	\$11,154			\$5,435			\$1,193			\$1,207			\$4,997
	F71 / 2 AM-2 Mat		(\$9,596)	579	\$2.95	(\$1,708)									
	F70 Tool Kit		(\$1,158)	10	\$91.50	(\$915)	5	\$95.00	(\$475)						
	Flatrack		(\$400)	308	\$6.60	(\$2,033)							221	\$6.63	(\$1,464)
	M-21 Arresting Gear			9	\$86.60	(\$779)	8	\$89.70	(\$718)						
	Revetment														
	MOSLS									2	\$603.50	(\$1,207)	6	\$588.83	(\$3,533)
TBD	M-31 Mobile Arresting Gear	B													
SE800	Integrated Logistics Support		\$3,317			\$244			\$196			\$10			\$12
SE830	Production Engineering		\$12,152			\$309			\$134			\$5			\$10
SE860	Acceptance Test & Evaluation		\$586												
	Various 1/ The amount reflected against this cost element reflects total prior year funding associated with cost elements no longer financed in FY 1995 and beyond.		\$93,779												
			\$120,988			\$5,988			\$1,523			\$1,222			\$5,019

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BUDGET ITEM JUSTIFICATION SHEET P-40								DATE: February 1998				
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/ BA-3- Aviation Support Equipment							P-1 ITEM NOMENCLATURE A/C Rearming Equipment					
Program Element for Code B Items:							Other Related Program Elements					
	Prior Years	ID Code	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total
QUANTITY												
COST (In Millions)	\$244.10		7.3	9.1	10.1	12.9	12.7	12.9	13.1	13.3	Cont.	Cont.
<p>This program funds the procurement of common Armament Support Equipment (ASE) and Weapons Support Equipment (WSE) under the procurement and inventory control of the Naval Inventory Control Point (NAVICP) and the Naval Air Systems Command.</p> <p>This budget line supports: (a) initial outfitting for all in-production weapons systems; (b) new Support Equipment (SE); and (c) elimination of the severe shortage of Armament Weapon Support Equipment (AWSE). These shortages prevent support of sustained operations and surge deployment of our CV Battle groups.</p> <p>Shipboard/Shorebased WSE is utilized by weapons departments to handle, transport, and maintain weapons. Examples of the equipment are the A/S32K-1D USMC Weapon Loader, Linkless Ammunition Loading System (LALS II), Common Detent Tester, A/E32K-3 RAMS, MHU-202/M Munitions Trailer, and the LALS Replenisher.</p> <p>Shipboard/Shorebased ASE is utilized by squadrons and supporting activities to load and service aircraft weapons and guns.</p> <p>The FY 1998 budget request provides for procurement of 47 LALS II units, and associated production engineering and acceptance test support. The FY 1999 budget request provides for procurement of 53 LALS II units, 2 HLU-196 D/E Bomb Hoists, 91 MHU-202/M Munitions Trailers, and associated production engineering and acceptance test support.</p>												

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WEAPONS SYSTEM COST ANALYSIS							Weapon System						DATE: February 1998			
P-5																
APPROPRIATION/BUDGET ACTIVITY							ID Code		P-1 ITEM NOMENCLATURE/SUBHEAD							
Other Procurement, Navy																
BA-3 Aviation Support Equipment							A/C REARMING EQUIPMENT 43SH									
COST CODE	ELEMENT OF COST	ID Code														
			Prior Years	FY 1996			FY 1997			FY 1998			FY 1999			
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	
SH004	Shipboard/Shorebase WSE															
	LALS II	A	7,056	29	193.31	5,606	35	212.00	7,420	47	175.62	8,254	53	187.45	9,935	
	HLU-196D/E BOMB HOIST	A											3	71.66	215	
	MHU-202/M MUNITIONS TRAILER	A	5,084										71	9.39	667	
	A/532K-1D WEAPONS LOADER	A	19,829													
SH830	Production Engineering		16,872			1,488			1,499			1,640			1,875	
SH860	Acceptance Test and Evaluation		2,470			221			162			205			220	
	OTHER		192,767													
			244,078			7,315			9,081			10,099			12,912	

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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System		A. DATE February 1998			
B. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA-3- Aviation Support Equipment					C. P-1 ITEM NOMENCLATURE A/C Rearming Equipment				SUBHEAD 43SH	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	IF NO WHEN AVAILABLE
SH004										
LALS II										
FY-1997	35	212.00*	NAWC PT MUGU		FP/OPTION	WESTERN DESIGN	12/30/96	1/9/98	YES	
FY-1998	47	175.62*	NAWC PT MUGU		C/FFP	TBD	12/1/97	10/1/98	YES	
FY-1999	53	187.45*	NAWC PT MUGU		FP/OPTION	TBD	12/1/98	10/1/99	YES	
HLU-196D/E BOMB HOIST										
FY-1999	3	71.66	NAWCAD LKE		TBD	TBD	12/1/98	12/1/99	YES	
MHU-202/M MUNITIONS TRLR										
FY-1999	71	9.39	NAWCAD LKE		TBD	TBD	12/1/98	12/1/99	YES	
D. REMARKS										
* FY-97 LALS II includes procurement of data rights for drawings and tooling; FY-99 included procurement of ancilliary equipment; (33) LALS II Replenishers. The aforementioned increased the average unit cost.										

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Exhibit P-20, Requirements Study			APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA-3 AVIATION SUPPORT EQUIPMENT				DATE: February 1998	
P-1 ITEM NOMENCLATURE LALS II			Admin Leadtime (after Oct1): 2 Months			Prod Leadtime : 10 Months		
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
Buy Summary	29	35	47	53	56	45		
Unit Cost	193.31	212.00	175.62	187.45	168.63	194.36		
Total Cost	5,606	7,420	8,254	9,935	9,443	8,746		
Asset Dynamics								
Beginning Asset Position	3	5	34	69	116	169	225	
Deliveries from all prior year funding (FY-96 & PRIOR)	2	29						
Deliveries from FY 1997 funding			35					
Deliveries from FY 1998 funding				47				
Deliveries from FY 1999 funding					53			
Deliveries from subsequent years' funding						56	45	
Other Gains								
Combat Losses/Usage								
Training Losses/Usage								
Test Losses/Usage								
Other Losses/Usage								
Disposals/Retirements/Attritions/etc.								
End of Year Asset Position	5	34	69	116	169	225	270	
Inventory Objective or Current Authorized Allowance	270	270	270	270	270	270	270	
Inventory Objective 270	Actual Training Expenditures	Other than Training Usage	Disposals (Vehicles/Other)	Vehicles Eligible for FY 1998 Replacement:	Aircraft: TOAI:			
Assets Rqd For Combat Loads:	FY 1996 thru XXXXX:	FY 1996 thru XXXXX:	FY 1996 thru XXXXX:	Vehicles Eligible for FY 1999 Replacement:	PAA: TAI			
WRM Rqmt:	FY 1995:	FY 1995:	FY 1995:	Vehicle Augment:	Attrition Res:			
Pipeline:	FY 1994:	FY 1994:	FY 1994:		BAI			
Other:	FY 1993:	FY 1993:	FY 1993:		Inactive Inv:			
TOTAL:					Storage:			
Remarks:								

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Exhibit P-20, Requirements Study				APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA-3 AVIATION SUPPORT EQUIPMENT			DATE: February 1998	
P-1 ITEM NOMENCLATURE HLU-196D/E BOMB HOIST			Admin Leadtime (after Oct1): 2 Months			Prod Leadtime : 12 Months		
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
Buy Summary				3		100	130	130
Unit Cost				71.66		10.23	10.22	10.22
Total Cost				215		1,023	1,328	1,328
Asset Dynamics								
Beginning Asset Position						3	3	103
Deliveries from all prior year funding (FY-96 & PRIOR)								
Deliveries from FY 1997 funding								
Deliveries from FY 1998 funding								
Deliveries from FY 1999 funding					3	0		
Deliveries from subsequent years' funding							100	130
Other Gains								
Combat Losses/Usage								
Training Losses/Usage								
Test Losses/Usage								
Other Losses/Usage								
Disposals/Retirements/Attritions/etc.								
End of Year Asset Position					3	3	103	233
Inventory Objective or Current Authorized Allowance					700	700	700	700
Inventory Objective 700	Actual Training Expenditures	Other than Training Usage	Disposals (Vehicles/Other)	Vehicles Eligible for FY 1998 Replacement:	Aircraft: TOAI:			
Assets Rqd For Combat Loads:	FY 1996 thru XXXXX:	FY 1996 thru XXXXX:	FY 1996 thru XXXXX:	Vehicles Eligible for FY 1999 Replacement:	PAA: TAI			
WRM Rqmt:	FY 1995:	FY 1995:	FY 1995:	Vehicle Augment:	Attrition Res:			
Pipeline:	FY 1994:	FY 1994:	FY 1994:		BAI			
Other:	FY 1993:	FY 1993:	FY 1993:		Inactive Inv:			
TOTAL:					Storage:			
Remarks:								

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Exhibit P-20, Requirements Study				APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA-3 AVIATION SUPPORT EQUIPMENT			DATE: February 1998	
P-1 ITEM NOMENCLATURE MHU-202/MUNITIONS TRAILER				Admin Leadtime (after Oct1): 2 Months			Prod Leadtime : 12 Months	
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
Buy Summary				71	71	64	64	27
Unit Cost				9.39	9.39	9.40	9.40	9.6
Total Cost				667	667	602	602	260
Asset Dynamics								
Beginning Asset Position		316	391	407	407	478	549	613
Deliveries from all prior year funding	316	75	16					
Deliveries from FY 1997 funding								
Deliveries from FY 1998 funding								
Deliveries from FY 1999 funding					71			
Deliveries from subsequent years' funding						71	64	64
Other Gains								
Combat Losses/Usage								
Training Losses/Usage								
Test Losses/Usage								
Other Losses/Usage								
Disposals/Retirements/Attritions/etc.								
End of Year Asset Position	316	391	407	407	478	549	613	677
Inventory Objective or Current Authorized Allowance	704	704	704	704	704	704	704	704
Inventory Objective 704	Actual Training Expenditures	Other than Training Usage	Disposals (Vehicles/Other)	Vehicles Eligible for FY 1998 Replacement:	Aircraft: TOAI:			
Assets Rqd For Combat Loads:	FY 1996 thru XXXXX:	FY 1996 thru XXXXX:	FY 1996 thru XXXXX:	Vehicles Eligible for FY 1999 Replacement:	PAA: TAI			
WRM Rqmt:	FY 1995:	FY 1995:	FY 1995:	Vehicle Augment:	Attrition Res:			
Pipeline:	FY 1994:	FY 1994:	FY 1994:		BAI			
Other:	FY 1993:	FY 1993:	FY 1993:		Inactive Inv:			
TOTAL:					Storage:			
Remarks:								

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FY 1998/99 BUDGET PRODUCTION SCHEDULE, P-21						DATE		February 1998											
APPROPRIATION/BUDGET ACTIVITY						Weapon System		P-1 ITEM NOMENCLATURE											
OTHER PROCUREMENT, NAVY/BA-3 AVIATION SUPPORT EQUIPMEN1								A/C Rearming Equipment											
		Production Rate				Procurement Leadtimes													
Item	Manufacturer's Name and Location					MSR	1-8-5	MAX	ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure					
LALS II	WDH, Irvine, CA					2	185	8			11			Mo					
HLU-196D/E Bomb Hoist	TBD					3	185	15			12			Mo					
MHU-202/M Munition Trailer	Verval, Ft. Walton Bch, FL					3	185	20			12			Mo					

ITEM / MANUFACTURER	F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 1997												FISCAL YEAR 1998												B A L			
						1996			CALENDAR YEAR 1997												CALENDAR YEAR 1998												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				
						LALS II	95	N	2	0	2	2																					
LALS II	96	N	29	0	29		2	2	2	2	3	3	3	3	3	3														0			
LALS II	97	N	35	0	35			A																						0			
LALS II	98	N	47	0	47														A											47			
MHU-202/M	95	N	91	0	91			7	7	7	7	7	8	8	8	8	8	8												0			

ITEM / MANUFACTURER	F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 1999												FISCAL YEAR 2000												B A L			
						1998			CALENDAR YEAR 1999												CALENDAR YEAR 2000												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				
						LALS II	98	N	47	0	47	3	4	4	4	4	4	4	4	4	4	4											
LALS II	99	N	53	0	53			A																						0			
HLU-196D/E	99	N	3	0	3			A																						0			
MHU-202/M	99	N	71	0	71			A																						0			

Remarks:

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BUDGET ITEM JUSTIFICATION SHEET P-40							DATE: February 1998					
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY / BA 3 AVIATION SUPPORT EQUIPMENT							P-1 ITEM NOMENCLATURE AIRCRAFT LAUNCH AND RECOVERY EQUIPMENT (ALRE) - 43SJ					
Program Element for Code B Items: 0603512N and 0604512N							Other Related Program Elements NOT APPLICABLE					
	Prior Years	ID Code	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total
QUANTITY												
COST (In Millions)	\$402.9		\$14.8	\$28.3	\$29.0	\$39.7	\$39.3	\$39.2	\$36.8	\$42.1	CONTINUING	CONTINUING
<p>This program provides for procurement of major aircraft launch, recovery, and Visual Landing Aids (VLA) equipment as well as ancillary items required for installation aboard aircraft carriers, air capable combatant vessels, amphibious assault ships, and shore stations. Most procurements are initiated due to one of the following reasons:</p> <ul style="list-style-type: none"> (1) urgent fleet problems associated with the safe and reliable operation of existing equipment; (2) expanding responsibilities in support of helicopter operations on Air Capable Ships (ACS) and Vertical / Short Take-Off and Landing (V/STOL) aircraft, and; (3) the demand for increased launch and recovery equipment reliability, availability, and maintainability (RAM); capability; and margin of safety. <p>Shipboard installed items procured under this program are for operational fleet aircraft carriers, air capable combatant vessels, and amphibious assault ships. Major equipment and service changes procured in support of the Fleet Modernization Program (FMP) are generally installed by shipyard personnel during routine or restricted availabilities and regular overhauls. Non-FMP installations include minor equipments and service changes that are installed by Alteration Installation Teams (AIT) or Voyage Repair Teams (VRT) from the Naval Aviation Depots (NADEPs) under the direction of Fleet Type Commanders and the Naval Air Warfare Center, Aircraft Division (NAWCAD), Lakehurst, NJ. Type Commanders determine shorebased installed item requirements.</p> <p>The FY 1996 program consisted of the following service change procurements: catapult-CV(N), arresting gear-CV(N), VLA-CV(N), catapult and fire-fighting support equipment-CV(N), Integrated Launch and Recovery Television System (ILARTS)-CV(N), and VLA-ACS. Also, funding for Production Engineering (PE); Integrated Logistics Support (ILS); Acceptance Test and Evaluation (ATE); and FMP / NFMP installations for FY 1996 and prior years is included.</p> <p>The FY 1997 program consists of the following service change procurements: catapult-CV(N) (one piece Flush Deck Nose Gear Launch and Low Loss Launch Valve), and Helicopter Landing Systems (HLS)-ACS; funding for AS/32P-25 Fire Trucks, PE, ILS, ATE, and FMP/NFMP installations for FY 1997 and prior years is included.</p> <p>The FY 1998 program consists of the following service change procurements: catapult-CV(N) (improved C-13-2 MOD piston), arresting gear-CV(N), VLA-ACS, and catapult and fire-fighting support equipment-CV(N). Also, funding for Long Range Line-up System (LRLS), AS/32P-25 Fire Trucks, PE, ILS, ATE, and FMP/NFMP installations for FY 1998 and prior years is included.</p> <p>The FY 1999 budget request consists of Aircraft Carrier (catapults, fire-fighting systems, arresting gear, and Visual Landing Aids) and Air Capable Ships (HLS) service change procurements. Also, included is funding for LRLS, Aviation Data Management and Control System / Integrated Shipboard Information System (ADMACS / ISIS), Improved Fresnel Lens Optical Landing System (IFLOLS), PE, ILS, ATE, and FMP/NFMP installations for FY 1999 and prior years.</p>												

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BUDGET ITEM JUSTIFICATION SHEET FOR AGGREGATED ITEMS P-40a								DATE: February 1998				
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY / BA 3 AVIATION SUPPORT EQUIPMENT							P-1 ITEM NOMENCLATURE AIRCRAFT LAUNCH AND RECOVERY EQUIPMENT (ALRE) - 43SJ					
Procurement Items	ID Code	Prior Years	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total
SERVICE CHANGE KITS		122.0	2.1	3.8	10.1	5.8	8.6	16.3	19.1	24.5	CONTINUING	CONTINUING
LAUNCHER S/C KITS	A											
QUANTITY												
COST (In Millions)		(4.5)	(1.2)	(2.3)	(6.3)	(3.2)	(6.7)	(11.8)	(14.9)	(14.0)	CONTINUING	CONTINUING
VLA S/C KITS	A											
QUANTITY												
COST (In Millions)		(3.1)	(0.6)		(1.4)	(0.5)		(1.5)	(2.0)	(4.2)	CONTINUING	CONTINUING
RECOVERY S/C KITS	A											
QUANTITY												
COST (In Millions)		(1.3)	(0.4)	(1.5)	(2.4)	(2.2)	(1.8)	(2.9)	(2.3)	(6.3)	CONTINUING	CONTINUING
Various 1/	A											
QUANTITY												
COST (In Millions)		\$142.0										\$142.0
Minor Equipment	A											
QUANTITY												
COST (In Millions)		\$1.8									CONTINUING	CONTINUING
LRLS - CV(N)	B											
QUANTITY					6	5						11
COST (In Millions)					\$1.1	\$0.8						\$1.9
LRLS - Shore	B											
QUANTITY					5	5						10
COST (In Millions)					\$0.8	\$0.8						\$1.5
ADMACS-ISIS CV(N)	B											
QUANTITY						3	3	4				10
COST (In Millions)						\$4.5	\$4.5	\$6.0				\$15.0
ADMACS-ISIS Shore	B											
QUANTITY							1					1
COST (In Millions)							\$1.5					\$1.5
ADMACS-ISIS LHA/D	B											
QUANTITY									3	3	6	12
COST (In Millions)									\$3.0	\$3.0	\$6.0	\$12.0
IFLOLS - CV(N)	B											
QUANTITY						5	5					10
COST (In Millions)						\$4.5	\$4.5					\$9.0

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BUDGET ITEM JUSTIFICATION SHEET FOR AGGREGATED ITEMS P-40a									DATE: February 1998			
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY / BA 3 AVIATION SUPPORT EQUIPMENT							P-1 ITEM NOMENCLATURE AIRCRAFT LAUNCH AND RECOVERY EQUIPMENT (ALRE) - 43SJ					
Procurement Items	ID Code	Prior Years	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total
IFLOLS - Shore	B											
QUANTITY						5	7	7				19
COST (In Millions)						\$2.4	\$3.5	\$3.5				\$9.4
AS/32P-25 Fire Truck	A											
QUANTITY				50	14							64
COST (In Millions)				\$8.8	\$2.6							\$11.3
VISUAL												
QUANTITY	B								1	2	19	22
COST (In Millions)									\$1.5	\$3.0	\$28.5	\$33.0
ILS												
QUANTITY												
COST (In Millions)		\$21.6	\$0.7	\$0.6	\$2.6	\$2.1	\$0.9	\$1.4	\$1.1	\$0.9	CONTINUING	CONTINUING
PE												
QUANTITY												
COST (In Millions)		\$60.4	\$1.9	\$1.9	\$2.3	\$4.2	\$3.7	\$3.0	\$2.4	\$2.6	CONTINUING	CONTINUING
ATE												
QUANTITY												
COST (In Millions)		\$1.9	\$0.0	\$0.1	\$0.3	\$0.2	\$0.2	\$0.3	\$0.2	\$0.3	CONTINUING	CONTINUING
Installation - NFMP												
QUANTITY												
COST (In Millions)		\$45.9	\$8.2	\$9.0	\$7.8	\$6.6	\$6.6	\$4.5	\$5.5	\$5.5	CONTINUING	CONTINUING
Installation - FMP												
QUANTITY												
COST (In Millions)		\$7.3	\$1.9	\$4.1	\$1.4	\$7.8	\$5.4	\$4.3	\$3.9	\$2.3	CONTINUING	CONTINUING
1/ The amount identified against this cost element reflects total prior year funding associated with cost elements no longer financed in FY 1995 and beyond.												
TOTAL		\$402.9	\$14.8	\$28.3	\$29.0	\$39.7	\$39.3	\$39.2	\$36.8	\$42.1	CONTINUING	CONTINUING

P-1 SHOPPING LIST

CLASSIFICATION:

UNCLASSIFIED

CLASSIFICATION:

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WEAPONS SYSTEM COST ANALYSIS P-5							Weapon System								DATE: February 1998	
APPROPRIATION/BUDGET ACTIVITY							ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD								
OTHER PROCUREMENT, NAVY / BA 3 AVIATION SUPPORT EQUIPMENT							AIRCRAFT LAUNCH AND RECOVERY EQUIPMENT (ALRE) - 43SJ									
COST CODE	ELEMENT OF COST	ID Code														
			Prior Years	FY 1996			FY 1997			FY 1998			FY 1999			
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	
SJ040	Service Change Kits	A	121,965			2,135			3,849			10,127			5,796	
	LAUNCHER															
	Catapults - CV(N)					(1,158)			(1,913)			(2,864)			(2,815)	
	Catapult Support Equipment - CV(N)								(400)			(3,439)			(356)	
	VISUAL LANDING AIDS															
	Visual Landing Aids - ACS											(1,175)			(456)	
	Visual Landing Aids - CV(N)					(609)						(255)				
	ILARTS - CV(N)															
	Marking and Lighting															
	WMIS															
	RECOVERY															
	Arresting Gear - CV(N)					(368)			(1,136)			(1,634)			(336)	
	Helicopter Landing System (HLS) - ACS								(400)			(760)			(1,833)	
TBD	Various 1/		141,958													
SJ050	Minor Equipment (less than \$200K)	A	1,828													
SJ210	LRLS - CV(N)	B								6	178	1,069	5	166	830	
SJ220	LRLS - Shorebased	B								5	153	765	5	153	765	
SJ230	ADMACS / ISIS - CV(N)	B											3	1,500	4,500	
SJ231	ADMACS / ISIS - Shorebased	B														
SJ232	ADMACS / ISIS - LHA / LHD	B														
SJ240	IFLOLS - CV(N)	B											5	900	4,500	
SJ250	IFLOLS - Shorebased	B											5	480	2,400	
SJ260	AS/32P-25 Fire Truck	A						50	175	8,750	14	185	2,590			
TBD	VISUAL	B														
SJ800	Integrated Logistics Support		21,639			737			563			2,625			2,118	
SJ830	Production Engineering		60,397			1,913			1,907			2,324			4,227	
SJ860	Acceptance, Test & Evaluation		1,864			4			94			315			170	
SJ900	Installation - NFMP		45,936			8,159			8,988			7,769			6,632	
SJ910	Installation - FMP		7,280			1,877			4,106			1,380			7,811	
			1/ The amount identified against this cost element reflects total prior year funding associated with cost elements no longer financed in FY 1995 and beyond.													
			402,867			14,825			28,257			28,964			39,749	

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CLASSIFICATION:

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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System		A. DATE February 1998			
B. APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY / BA 3 AVIATION SUPPORT EQUIPMENT					C. P-1 ITEM NOMENCLATURE AIRCRAFT LAUNCH AND RECOVERY EQUIPMENT (ALRE)				SUBHEAD 43SJ	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST '(000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	IF NO WHEN AVAILABLE
SJ260 AS/32P-25 FY 1997	50	175	NAWCAD LKE	Not Applicable	Option to EMD* Contract (CPI)	The Entwistle Company Hudson, MA	4/97	5/98	Yes	N/A
SJ260 AS/32P-25 FY 1998	14	185	NAWCAD LKE	Not Applicable	Option to EMD* Contract (CPI)	The Entwistle Company Hudson, MA	12/97	3/99	Yes	N/A
SJ210 LRLS - CV(N) FY 1998	6	178	NAWCAD LKE	Not Applicable	FFP/OPTION**	Raytheon E-Systems Goleta, CA	11/97	10/98	Yes	N/A
SJ210 LRLS - CV(N) FY 1999	5	166	NAWCAD LKE	Not Applicable	FFP/OPTION**	Raytheon E-Systems Goleta, CA	11/98	10/99	Yes	N/A
SJ220 LRLS - Shorebased FY 1998	5	153	NAWCAD LKE	Not Applicable	FFP/OPTION**	Raytheon E-Systems Goleta, CA	11/97	10/98	Yes	N/A
SJ220 LRLS - Shorebased FY 1999	5	153	NAWCAD LKE	Not Applicable	FFP/OPTION**	Raytheon E-Systems Goleta, CA	11/98	10/99	Yes	N/A
SJ230 ISIS/ADMACS FY 1999	3	1,500	NAWCAD LKE	Not Applicable	Project Order	NAWCAD LKE*** Lakehurst, NJ	11/98	10/99	Yes	N/A
SJ240 IFLOLS - CV(N) FY 1999	5	900	NAWCAD LKE	Not Applicable	Project Order	NAWCAD IND Hughes Technical Services Indianapolis, IN	11/98	10/99	Yes	N/A
SJ250 IFLOLS - Shorebased FY 1999	5	480	NAWCAD LKE	Not Applicable	Project Order	NAWCAD IND Hughes Technical Services Indianapolis, IN	11/98	10/99	Yes	N/A
D. REMARKS * Option to existing Engineering & Manufacturing Development (EMD) contract ** Options to current EMD contract *** NAWCAD LKE will act as the systems integrator.										

UNCLASSIFIED

CLASSIFICATION: **UNCLASSIFIED**

P3A INDIVIDUAL MODIFICATION																								
MODELS OF SYSTEM AFFECTED: <u>VARIOUS</u>				TYPE MODIFICATION: <u>VARIOUS</u>				MODIFICATION TITLE: <u>LAUNCHER S/C SUMMARY</u>																
DESCRIPTION/JUSTIFICATION: Summary page of all Launcher Service Changes																								
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: <u>NOT APPLICABLE</u>																								
	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																								
RD&E																								
PROCUREMENT																								
INSTALLATION KITS (UNIT COST)		0.116		0.172		0.001		0.009		0.051		0.159		0.517		0.275		0.413		0.161	CONTINUING	CONTINUING		
INSTALLATION KITS	88	10.198	26	4.484	2227	1.158	266	2.313	123	6.303	20	3.171	13	6.715	43	11.829	36	14.859	87	14.024	CONTINUING	CONTINUING		
INSTALLATION KITS NONRECURRING EQUIPMENT																								
EQUIPMENT NONRECURRING																								
ENGINEERING CHANGE ORDERS																								
DATA																								
TRAINING EQUIPMENT																								
SUPPORT EQUIPMENT																								
OTHER - PE		0.238		1.025		0.896		0.427		0.234		0.163		0.198		0.310		0.224		0.283		0.042	CONTINUING	
OTHER - ILS		0.149		0.263		0.417		0.100		0.159		0.086		0.079		0.135		0.125		0.075			CONTINUING	
OTHER - ATE				0.020		0.004		0.094		0.300						0.112		0.050		0.060			CONTINUING	
INTERIM CONTRACTOR SUPPORT																								
INSTALL COST	*	18.475	*	12.975	10	4.855	1923	8.895	701	7.316	62	5.289	33	0.375	14	0.055	35	0.322	46	0.608	146	2.614	2970	61.779
TOTAL PROCUREMENT	88	29.060	26	18.767	2227	7.330	266	11.829	123	14.312	20	8.709	13	7.367	43	12.441	36	15.580	87	15.050	42	51.442	2970	191.887

CLASSIFICATION: UNCLASSIFIED

P3A (Continued)

INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: VARIOUS MODIFICATION TITLE: LAUNCHER S/C SUMMARY

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: VARIOUS

ADMINISTRATIVE LEADTIME: VARIOUS Months

CONTRACT DATES: FY 1997: VARIOUS

DELIVERY DATE: FY 1997: VARIOUS

PRODUCTION LEADTIME: VARIOUS Months

FY 1998: VARIOUS FY 1999: VARIOUS

FY 1998: VARIOUS FY 1999: VARIOUS

(\$ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
INSTALLATION SUPPORT		0.030		0.015		0.111		0.392		0.221		0.197		0.044		0.055		0.063		0.108		Continuing	Continuing	
PRIOR YEARS	*	18.445	*	12.960	10	4.744	32	4.874	28	4.897	18	4.383									Continuing	Continuing		
FY 1995 EQUIPMENT							26	3.521													Continuing	Continuing		
FY 1996 EQUIPMENT							1765	0.108	451	0.740	10	0.060	1								Continuing	Continuing		
FY 1997 EQUIPMENT							100		122	1.458	18	0.419	16	0.331	2		6	0.119	1		Continuing	Continuing		
FY 1998 EQUIPMENT									100		16	0.230	5								Continuing	Continuing		
FY 1999 EQUIPMENT													11		7						Continuing	Continuing		
FY 2000 EQUIPMENT															5		7				Continuing	Continuing		
FY 2001 EQUIPMENT																	22	0.140	11		Continuing	Continuing		
FY 2002 EQUIPMENT																			29		Continuing	Continuing		
FY 2003 EQUIPMENT																			5	0.500	Continuing	Continuing		
TO COMPLETE																					Continuing	Continuing		
INSTALL COST	*	18.475	*	12.975	10	4.855	1923	8.895	701	7.316	62	5.289	33	0.375	14	0.055	35	0.322	46	0.608	Continuing	Continuing		

INSTALLATION SCHEDULE:

	FY 1996 & Prior	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
In	469 *	465	516	516	497	65	64	65	15	15	14	14	11	4	6	6	4	4	5	4	3	4	15	10	8	9	12	11	10	129	2970
Out	10	407	489	504	523	500	66	68	67	12	16	18	16	8	8	10	7	3	2	5	4	2	7	15	11	9	10	13	14	146	2970

* Various

P-3A

CLASSIFICATION: **UNCLASSIFIED**

P3A		INDIVIDUAL MODIFICATION																							
MODELS OF SYSTEM AFFECTED: <u>C7, C13-0, C13-1 AND C13-2 CATAPULTS</u>		TYPE MODIFICATION: <u>SAFETY / PERFORMANCE</u>										MODIFICATION TITLE: <u>LAUNCH - CRITICAL UNION NUT</u>													
DESCRIPTION/JUSTIFICATION: Catapult Service Change 624 replaces the existing union nuts with an improved design that decreases the likelihood of catastrophic failure.																									
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: <u>NOT APPLICABLE</u>																									
FINANCIAL PLAN (IN MILLIONS)		<u>FY 1994 & Prior</u>		<u>FY 1995</u>		<u>FY 1996</u>		<u>FY 1997</u>		<u>FY 1998</u>		<u>FY 1999</u>		<u>FY 2000</u>		<u>FY 2001</u>		<u>FY 2002</u>		<u>FY 2003</u>		<u>TC</u>		<u>TOTAL</u>	
		QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
<u>RDT&E</u>																									
<u>PROCUREMENT</u>																									
INSTALLATION KITS (UNIT COST)									0.005																0.005
INSTALLATION KITS								52	0.250															52	0.250
INSTALLATION KITS NONRECURRING																									
EQUIPMENT																									
EQUIPMENT NONRECURRING																									
ENGINEERING CHANGE ORDERS																									
DATA																									
TRAINING EQUIPMENT																									
SUPPORT EQUIPMENT																									
OTHER - PE							0.095		0.031		0.015														0.141
OTHER - ILS							0.045		0.015																0.060
OTHER - ATE																									
INTERIM CONTRACTOR SUPPORT																									
INSTALL COST - Non-FMP									16	0.346	18	0.429	14	0.336			4	0.119						52	1.230
TOTAL PROCUREMENT							0.140	52	0.296		0.361		0.429	0.336			0.119							52	1.681

CLASSIFICATION: **UNCLASSIFIED**

P3A (Continued)

INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: C7, C13-0, C13-1 AND C13-2 CATAPULTS MODIFICATION TITLE: LAUNCH - CRITICAL UNION NUT

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: DEPOT

ADMINISTRATIVE LEADTIME: 7 Months

PRODUCTION LEADTIME: 8 Months

CONTRACT DATES: FY 1997: 4/30/97

FY 1998: N/A

FY 1999: N/A

DELIVERY DATE: FY 1997: 12/15/97

FY 1998: N/A

FY 1999: N/A

(\$ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
INSTALLATION SUPPORT										0.010		0.010		0.005										0.025
PRIOR YEARS																								
FY 1995 EQUIPMENT																								
FY 1996 EQUIPMENT																								
FY 1997 EQUIPMENT									16	0.336	18	0.419	14	0.331			4	0.119					52	1.205
FY 1998 EQUIPMENT																								
FY 1999 EQUIPMENT																								
FY 2000 EQUIPMENT																								
FY 2001 EQUIPMENT																								
FY 2002 EQUIPMENT																								
FY 2003 EQUIPMENT																								
TO COMPLETE																								
INSTALL COST - Non-FMP									16	0.346	18	0.429	14	0.336			4	0.119					52	1.230

INSTALLATION SCHEDULE:

	FY 1996 & Prior	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In						4	7	7	7	7	7	7	6													52	
Out						2	5	5	4	5	4	5	4	4	4	4	2					4				52	

P-3A

CLASSIFICATION: **UNCLASSIFIED**

P3A		INDIVIDUAL MODIFICATION																							
MODELS OF SYSTEM AFFECTED: <u>C13-0, C13-1 AND C13-2 CATAPULTS</u>		TYPE MODIFICATION: <u>RELIABILITY / MAINTAINABILITY</u>										MODIFICATION TITLE: <u>LAUNCH - IMPROVED CLOCK TIMER</u>													
DESCRIPTION/JUSTIFICATION: Launcher Service Change No. 503 replaces the existing obsolete mechanical timer to improve system supportability, reliability, and compatibility.																									
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: <u>NOT APPLICABLE</u>																									
	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL		
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	
FINANCIAL PLAN (IN MILLIONS)																									
<i>RD&E</i>																									
<i>PROCUREMENT</i>																									
INSTALLATION KITS (UNIT COST)		0.018																						0.018	
INSTALLATION KITS		53	0.965																					53	0.965
INSTALLATION KITS NONRECURRING																									
EQUIPMENT																									
EQUIPMENT NONRECURRING																									
ENGINEERING CHANGE ORDERS																									
DATA																									
TRAINING EQUIPMENT																									
SUPPORT EQUIPMENT																									
OTHER - PE		0.048		0.015		0.015		0.015																0.093	
OTHER - ILS		0.039		0.020		0.020																0.079			
OTHER - ATE				0.020																0.020					
INTERIM CONTRACTOR SUPPORT																									
INSTALL COST - Non-FMP		0.030		0.015		0.015		13	0.058	25	0.070	15	0.043											53	0.231
TOTAL PROCUREMENT		53	1.082	0.070		0.050		0.073		0.070		0.043												53	1.388

CLASSIFICATION: **UNCLASSIFIED**

P3A (Continued)

INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: C13-0, C13-1 AND C13-2 CATAPULTS MODIFICATION TITLE: LAUNCH - IMPROVED CLOCK TIMER

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: DEPOT

ADMINISTRATIVE LEADTIME: 10 Months

PRODUCTION LEADTIME: 20 Months

CONTRACT DATES: FY 1997: N/A

FY 1998: N/A

FY 1999: N/A

DELIVERY DATE: FY 1997: N/A

FY 1998: N/A

FY 1999: N/A

(\$ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
INSTALLATION SUPPORT		0.030		0.015		0.015		0.015		0.008		0.005												0.088
PRIOR YEARS							13	0.043	25	0.062	15	0.038											53	0.143
FY 1995 EQUIPMENT																								
FY 1996 EQUIPMENT																								
FY 1997 EQUIPMENT																								
FY 1998 EQUIPMENT																								
FY 1999 EQUIPMENT																								
FY 2000 EQUIPMENT																								
FY 2001 EQUIPMENT																								
FY 2002 EQUIPMENT																								
FY 2003 EQUIPMENT																								
TO COMPLETE																								
INSTALL COST - Non-FMP		0.030		0.015		0.015	13	0.058	25	0.070	15	0.043											53	0.231

INSTALLATION SCHEDULE:

	FY 1996 & Prior	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	4	5	6	6	6	6	6	6	6	2																	53
Out			2	5	6	6	6	6	7	4	4	4	3														53

P-3A

CLASSIFICATION: **UNCLASSIFIED**

P3A		INDIVIDUAL MODIFICATION										
MODELS OF SYSTEM AFFECTED:	<u>C13-2 CATAPULTS</u>	TYPE MODIFICATION:	<u>IMPROVED CAPABILITY</u>									
MODIFICATION TITLE: <u>LAUNCH - CSV VERIF / COMMAND</u>												
DESCRIPTION/JUSTIFICATION:												
Launcher Service Change 625 for the Capacity Selector Valve (CSV) elevates the Central Charging Panel (CCP) operator responsibility in the launch sequence for Integrated Catapult Control System (ICCS) ships.												
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:												
<u>NOT APPLICABLE</u>												
	<u>FY 1994 & Prior</u>	<u>FY 1995</u>	<u>FY 1996</u>	<u>FY 1997</u>	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>TC</u>	<u>TOTAL</u>
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)												
<u>RDT&E</u>												
<u>PROCUREMENT</u>												
INSTALLATION KITS (UNIT COST)				0.001								0.001
INSTALLATION KITS			33	0.019								33 0.019
INSTALLATION KITS NONRECURRING												
EQUIPMENT												
EQUIPMENT NONRECURRING												
ENGINEERING CHANGE ORDERS												
DATA												
TRAINING EQUIPMENT												
SUPPORT EQUIPMENT												
OTHER - PE												
OTHER - ILS												
OTHER - ATE												
INTERIM CONTRACTOR SUPPORT												
INSTALL COST - Non-FMP					15 0.112	10 0.743	8 0.062					33 0.917
TOTAL PROCUREMENT				33 0.019	0.112	0.743	0.062					33 0.936

CLASSIFICATION: **UNCLASSIFIED**

INDIVIDUAL MODIFICATION (Continued)																															
P3A (Continued)																															
MODELS OF SYSTEMS AFFECTED: <u>C13-2 CATAPULTS</u>											MODIFICATION TITLE: <u>LAUNCH - CSV VERIF / COMMAND</u>																				
INSTALLATION INFORMATION:																															
METHOD OF IMPLEMENTATION: <u>DEPOT</u>																															
ADMINISTRATIVE LEADTIME: <u>2 Months</u>											PRODUCTION LEADTIME: <u>3 Months</u>																				
CONTRACT DATES: FY 1997: <u>N/A</u>											FY 1998: <u>N/A</u> FY 1999: <u>N/A</u>																				
DELIVERY DATE: FY 1997: <u>N/A</u>											FY 1998: <u>N/A</u> FY 1999: <u>N/A</u>																				
(\$ in Millions)																															
Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total								
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$							
INSTALLATION SUPPORT								0.004		0.003		0.002												0.009							
PRIOR YEARS																															
FY 1995 EQUIPMENT																															
FY 1996 EQUIPMENT							15	0.108	10	0.740	8	0.060											33	0.908							
FY 1997 EQUIPMENT																															
FY 1998 EQUIPMENT																															
FY 1999 EQUIPMENT																															
FY 2000 EQUIPMENT																															
FY 2001 EQUIPMENT																															
FY 2002 EQUIPMENT																															
FY 2003 EQUIPMENT																															
TO COMPLETE																															
INSTALL COST - Non-FMP							15	0.112	10	0.743	8	0.062											33	0.917							
INSTALLATION SCHEDULE:																															
	FY 1996 & Prior	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		TOTAL				
In	4	10	10	9																							33				
Out		1	3	5	6	2	3	2	3	2	2	2	2														33				

P-3A

CLASSIFICATION: **UNCLASSIFIED**

P3A		INDIVIDUAL MODIFICATION																													
MODELS OF SYSTEM AFFECTED:		<u>C7, C13-0, C13-1 AND C13-2 CATAPULTS</u>						TYPE MODIFICATION:						<u>RELIABILITY / MAINTAINABILITY</u>						MODIFICATION TITLE:						<u>LAUNCH - CRES WATER BRAKE</u>					
DESCRIPTION/JUSTIFICATION:		This Launcher Service Change replaces the existing steel water brake cylinders with a Corrosion Resistant Steel / Material which will extend catapult cylinder life and reduce maintenance man-hours.																													
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:		<u>NOT APPLICABLE</u>																													
		FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL							
		QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$						
FINANCIAL PLAN (IN MILLIONS)																															
<u>RD&E</u>																															
<u>PROCUREMENT</u>																															
INSTALLATION KITS (UNIT COST)																															
INSTALLATION KITS																15	1.830	25	3.174	58	7.430	6	0.780	104	13.214						
INSTALLATION KITS NONRECURRING																															
EQUIPMENT																															
EQUIPMENT NONRECURRING																															
ENGINEERING CHANGE ORDERS																															
DATA																															
TRAINING EQUIPMENT																															
SUPPORT EQUIPMENT																															
OTHER - PE										0.048			0.035		0.057		0.023		0.023		0.023				0.209						
OTHER - ILS														0.050		0.035									0.085						
OTHER - ATE															0.065										0.065						
INTERIM CONTRACTOR SUPPORT																															
INSTALL COST - Non-FMP																0.020	8	0.020	32	0.020	64	0.040	104	0.100							
TOTAL PROCUREMENT										0.048			0.035		0.107	15	1.973	25	3.217	58	7.473	6	0.820	104	13.673						

CLASSIFICATION: **UNCLASSIFIED**

INDIVIDUAL MODIFICATION (Continued)																									
P3A (Continued)																									
MODELS OF SYSTEMS AFFECTED: <u>C7, C13-0, C13-1 AND C13-2 CATAPULTS</u>											MODIFICATION TITLE: <u>LAUNCH - CRES WATER BRAKE</u>														
INSTALLATION INFORMATION:																									
METHOD OF IMPLEMENTATION: <u>SHIPYARD - SHIP ALTERATION</u>																									
ADMINISTRATIVE LEADTIME: <u>2 Months</u>											PRODUCTION LEADTIME: <u>10 Months</u>														
CONTRACT DATES: FY 1997: <u>N/A</u>											FY 1998: <u>N/A</u> FY 1999: <u>N/A</u>														
DELIVERY DATE: FY 1997: <u>N/A</u>											FY 1998: <u>N/A</u> FY 1999: <u>N/A</u>														
(\$ in Millions)																									
Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
INSTALLATION SUPPORT																0.020		0.020		0.020					
PRIOR YEARS																									
FY 1995 EQUIPMENT																									
FY 1996 EQUIPMENT																									
FY 1997 EQUIPMENT																									
FY 1998 EQUIPMENT																									
FY 1999 EQUIPMENT																									
FY 2000 EQUIPMENT																									
FY 2001 EQUIPMENT																	8	*	7	*				15	*
FY 2002 EQUIPMENT																			25	*				25	*
FY 2003 EQUIPMENT																					58	*		58	*
TO COMPLETE																					6	*		6	*
INSTALL COST - Non-FMP																0.020	8	0.020	32	0.020	64	0.040	104	0.100	
INSTALLATION SCHEDULE:																									
	FY 1996 & Prior	FY 1997			FY 1998			FY 1999			FY 2000			FY 2001			FY 2002			FY 2003			TC	TOTAL	
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
In																		5	5	5	5	69	104		
Out																		4	4	8	8	8	8	64	104
* Type Commander Funded installation.																									

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CLASSIFICATION: **UNCLASSIFIED**

P3A		INDIVIDUAL MODIFICATION																													
MODELS OF SYSTEM AFFECTED:		<u>CVN 68/72 CLASS CATAPULTS</u>										TYPE MODIFICATION:					<u>RELIABILITY / MAINTAINABILITY</u>					MODIFICATION TITLE:					<u>LAUNCH - TROUGH COVERS</u>				
DESCRIPTION/JUSTIFICATION:																															
This Launcher Service Change replaces the two piece steel trough covers used on CVNs 68 and 72 with a Corrosion Resistant Steel / Material one piece Inconel clad trough cover. This is a Type Commander funded installation.																															
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:																															
<u>NOT APPLICABLE</u>																															
		<u>FY 1994 & Prior</u>		<u>FY 1995</u>		<u>FY 1996</u>		<u>FY 1997</u>		<u>FY 1998</u>		<u>FY 1999</u>		<u>FY 2000</u>		<u>FY 2001</u>		<u>FY 2002</u>		<u>FY 2003</u>		<u>TC</u>		<u>TOTAL</u>							
		QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$						
FINANCIAL PLAN (IN MILLIONS)																															
<u>RD&E</u>																															
<u>PROCUREMENT</u>																															
INSTALLATION KITS (UNIT COST)			2.700							2.700				2.700		2.700		2.700					2.750		2.732						
INSTALLATION KITS		2	5.400						1	2.700			2	5.400	1	2.700	3	8.100			16	44.000		25	68.300						
INSTALLATION KITS NONRECURRING																															
EQUIPMENT																															
EQUIPMENT NONRECURRING																															
ENGINEERING CHANGE ORDERS																															
DATA																															
TRAINING EQUIPMENT																															
SUPPORT EQUIPMENT																															
OTHER - PE										0.002				0.002		0.002		0.002					0.032		0.040						
OTHER - ILS																															
OTHER - ATE																															
INTERIM CONTRACTOR SUPPORT																															
INSTALL COST - Non-FMP								0.015	2	3.914	1	0.015		0.022	1	0.034	2	0.034	1	0.034	18	0.280		25	4.348						
TOTAL PROCUREMENT		2	5.400					0.015	1	6.616		0.015	2	5.424	1	2.736	3	8.136		0.034	16	44.312		25	72.688						

CLASSIFICATION: **UNCLASSIFIED**

INDIVIDUAL MODIFICATION (Continued)																									
P3A (Continued)																									
MODELS OF SYSTEMS AFFECTED: <u>CVN 68/72 CLASS CATAPULTS</u>											MODIFICATION TITLE: <u>LAUNCH - TROUGH COVERS</u>														
INSTALLATION INFORMATION:																									
METHOD OF IMPLEMENTATION: <u>SHIPYARD</u>																									
ADMINISTRATIVE LEADTIME: <u>3 Months</u>											PRODUCTION LEADTIME: <u>16 Months</u>														
CONTRACT DATES: FY 1997: <u>N/A</u>											FY 1998: <u>Dec-97</u> FY 1999: <u>N/A</u>														
DELIVERY DATE: FY 1997: <u>N/A</u>											FY 1998: <u>Apr-99</u> FY 1999: <u>N/A</u>														
(\$ in Millions)																									
Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
INSTALLATION SUPPORT								0.015		0.045		0.015		0.022		0.034		0.034		0.034			0.280	2	0.479
PRIOR YEARS								2	3.869															2	3.869
FY 1995 EQUIPMENT																									
FY 1996 EQUIPMENT																									
FY 1997 EQUIPMENT																									
FY 1998 EQUIPMENT											1	*												1	*
FY 1999 EQUIPMENT																									
FY 2000 EQUIPMENT														1	*		1	*						2	*
FY 2001 EQUIPMENT																1	*							1	*
FY 2002 EQUIPMENT																			1	*		2	*	3	
FY 2003 EQUIPMENT																									
TO COMPLETE																						16	*	16	
INSTALL COST - Non-FMP								0.015	2	3.914	1	0.015		0.022	1	0.034	2	0.034	1	0.034	18	0.280	25	4.348	
INSTALLATION SCHEDULE:																									
	FY 1996 & Prior	FY 1997			FY 1998			FY 1999			FY 2000			FY 2001			FY 2002			FY 2003			TC	TOTAL	
In	2	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	16	25		
Out																						18	25		
* Type Commander Funded installation.																									

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CLASSIFICATION: **UNCLASSIFIED**

INDIVIDUAL MODIFICATION																								
P3A																								
MODELS OF SYSTEM AFFECTED: <u>C13-2 CATAPULT</u>						TYPE MODIFICATION: <u>RELIABILITY / MAINTAINABILITY</u>						MODIFICATION TITLE: <u>LAUNCH- IMPROVED PISTON</u>												
DESCRIPTION/JUSTIFICATION:																								
This Launcher Service Change replaces existing C13-2 catapult pistons with an improved design and titanium material which extends service life and decreases maintenance man-hours. This is a Type Commander funded installation.																								
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: <u>NOT APLICABLE</u>																								
	<u>FY 1994 & Prior</u>		<u>FY 1995</u>		<u>FY 1996</u>		<u>FY 1997</u>		<u>FY 1998</u>		<u>FY 1999</u>		<u>FY 2000</u>		<u>FY 2001</u>		<u>FY 2002</u>		<u>FY 2003</u>		<u>TC</u>	<u>TOTAL</u>		
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$		
FINANCIAL PLAN (IN MILLIONS)																								
<u>RDT&E</u>																								
<u>PROCUREMENT</u>																								
INSTALLATION KITS (UNIT COST)									0.429		0.430		0.433		0.430		0.467		0.490		0.493		0.442	
INSTALLATION KITS								6	2.571	6	2.580	2	0.866	5	2.150	3	1.400	2	0.980	1	0.493	25	11.040	
INSTALLATION KITS NONRECURRING																								
EQUIPMENT																								
EQUIPMENT NONRECURRING																								
ENGINEERING CHANGE ORDERS																								
DATA																								
TRAINING EQUIPMENT																								
SUPPORT EQUIPMENT																								
OTHER - PE								0.065	0.065		0.044		0.064		0.069		0.010		0.010		0.010		0.337	
OTHER - ILS								0.045	0.045		0.030		0.018										0.138	
OTHER - ATE																								
INTERIM CONTRACTOR SUPPORT																								
INSTALL COST - Non-FMP										6	*	6	*	2	*	5	*	3	*	3	*	25	*	
TOTAL PROCUREMENT								0.110	6	2.681	6	2.654	2	0.948	5	2.219	3	1.410	2	0.990	1	0.503	25	11.515

* This is an Organizational Maintenance item with no associated FMP or NFMP installation costs.

CLASSIFICATION: **UNCLASSIFIED**

INDIVIDUAL MODIFICATION (Continued)																									
P3A (Continued)																									
MODELS OF SYSTEMS AFFECTED: <u>C13-2 CATAPULT</u>											MODIFICATION TITLE: <u>LAUNCH- IMPROVED PISTON</u>														
INSTALLATION INFORMATION:																									
METHOD OF IMPLEMENTATION: <u>"O" LEVEL MAINTENANCE</u>																									
ADMINISTRATIVE LEADTIME: <u>3 Months</u>											PRODUCTION LEADTIME: <u>18 Months</u>														
CONTRACT DATES: FY 1997: <u>N/A</u>											FY 1998: <u>Dec-97</u> FY 1999: <u>Dec-98</u>														
DELIVERY DATE: FY 1997: <u>N/A</u>											FY 1998: <u>Jun-98</u> FY 1999: <u>Jun-99</u>														
(\$ in Millions)																									
Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
INSTALLATION SUPPORT																									
PRIOR YEARS																									
FY 1995 EQUIPMENT																									
FY 1996 EQUIPMENT																									
FY 1997 EQUIPMENT																									
FY 1998 EQUIPMENT											6	*											6	*	
FY 1999 EQUIPMENT													6	*									6	*	
FY 2000 EQUIPMENT															2	*							2	*	
FY 2001 EQUIPMENT																	5	*					5	*	
FY 2002 EQUIPMENT																			3	*			3	*	
FY 2003 EQUIPMENT																					2	*	2	*	
TO COMPLETE																					1	*	1	*	
INSTALL COST - Non-FMP											6	*	6	*	2	*	5	*	3	*	3	*	25	*	
INSTALLATION SCHEDULE:																									
	FY 1996 & Prior	FY 1997			FY 1998			FY 1999			FY 2000			FY 2001			FY 2002			FY 2003			TC	TOTAL	
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
In										1	2	2	1	1	1			1	2	2		1	2		
Out										2	2	2				1	1	1	2	2		1	2		
										2	2	2						1	2	2		1	2		
																						3			
																						3			
						</																			

CLASSIFICATION: **UNCLASSIFIED**

P3A		INDIVIDUAL MODIFICATION																													
MODELS OF SYSTEM AFFECTED:		<u>C7, C13-0, C13-1 AND C13-2 CATAPULTS</u>										TYPE MODIFICATION:					<u>RELIABILITY / MAINTAINABILITY</u>					MODIFICATION TITLE:					<u>LAUNCH - LLLV O/H KITS</u>				
DESCRIPTION/JUSTIFICATION:																															
Launcher Service Change 629 upgrades the existing Low Loss Launch Valves (LLLW) to a new configuration to improve reliability and maintainability; extend service life, and reduce maintenance man-hours.																															
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:																															
<u>NOT APPLICABLE</u>																															
	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL								
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$							
FINANCIAL PLAN (IN MILLIONS)																															
<u>RD&E</u>																															
<u>PROCUREMENT</u>																															
INSTALLATION KITS (UNIT COST)						0.101		0.114		0.114		0.118			0.120					0.130			0.118								
INSTALLATION KITS				2	0.202	8	0.910	2	0.228	2	0.235				10	1.200				4	0.520	28	3.295								
INSTALLATION KITS NONRECURRING																															
EQUIPMENT																															
EQUIPMENT NONRECURRING																															
ENGINEERING CHANGE ORDERS																															
DATA																															
TRAINING EQUIPMENT																															
SUPPORT EQUIPMENT																															
OTHER - PE				0.045	0.059		0.015		0.010		0.010		0.010		0.015		0.010							0.174							
OTHER - ILS					0.010																			0.010							
OTHER - ATE																															
INTERIM CONTRACTOR SUPPORT																															
INSTALL COST - Non-FMP											2	*	2	*	2	*	2	*	1	*	19	*	28	*							
TOTAL PROCUREMENT				0.045	2	0.271	8	0.925	2	0.238	2	0.245		0.010	10	1.215		0.010		4	0.520	28	3.479								

CLASSIFICATION: **UNCLASSIFIED**

INDIVIDUAL MODIFICATION (Continued)																															
P3A (Continued)																															
MODELS OF SYSTEMS AFFECTED: <u>C7, C13-0, C13-1 AND C13-2 CATAPULTS</u>											MODIFICATION TITLE: <u>LAUNCH - LLLV O/H KITS</u>																				
INSTALLATION INFORMATION:																															
METHOD OF IMPLEMENTATION: <u>DEPOT</u>																															
ADMINISTRATIVE LEADTIME: <u>3 Months</u>											PRODUCTION LEADTIME: <u>6 Months</u>																				
CONTRACT DATES: FY 1997: <u>N/A</u>											FY 1998: <u>N/A</u> FY 1999: <u>12/15/99</u>																				
DELIVERY DATE: FY 1997: <u>N/A</u>											FY 1998: <u>N/A</u> FY 1999: <u>6/30/00</u>																				
(\$ in Millions)																															
Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total								
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$							
INSTALLATION SUPPORT																															
PRIOR YEARS																															
FY 1995 EQUIPMENT																															
FY 1996 EQUIPMENT											2	*											2	*							
FY 1997 EQUIPMENT													2	*	2	*	2	*	1	*	1	*	8	*							
FY 1998 EQUIPMENT																				2	*	2	*								
FY 1999 EQUIPMENT																				2	*	2	*								
FY 2000 EQUIPMENT																															
FY 2001 EQUIPMENT																				10	*	10	*								
FY 2002 EQUIPMENT																															
FY 2003 EQUIPMENT																															
TO COMPLETE																				4	*	4	*								
INSTALL COST - Non-FMP											2	*	2	*	2	*	2	*	1	*	19	*	28	*							
INSTALLATION SCHEDULE:																															
	FY 1996 & Prior	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	4	TOTAL
In										1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4	28
Out			1	1			1	1				2				2				2				1		19				19	28
* Installation accomplished during Depot Maintenance with no associated NFMP or FMP costs.																															

P-3A

CLASSIFICATION: **UNCLASSIFIED**

P3A		INDIVIDUAL MODIFICATION																													
MODELS OF SYSTEM AFFECTED:		<u>CV(N) CATAPULTS</u>						TYPE MODIFICATION:						<u>RELIABILITY / MAINTAINABILITY</u>						MODIFICATION TITLE:						<u>LAUNCH - HARDENED SHUTTLE</u>					
DESCRIPTION/JUSTIFICATION:																															
Launcher Service Change replaces the existing shuttle with a laser hardened shuttle to improve durability, reliability, and maintainability.																															
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:																															
<u>NOT APPLICABLE</u>																															
		<u>FY 1994 & Prior</u>		<u>FY 1995</u>		<u>FY 1996</u>		<u>FY 1997</u>		<u>FY 1998</u>		<u>FY 1999</u>		<u>FY 2000</u>		<u>FY 2001</u>		<u>FY 2002</u>		<u>FY 2003</u>		<u>TC</u>		<u>TOTAL</u>							
		QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$						
FINANCIAL PLAN (IN MILLIONS)																															
<u>RD&E</u>																															
<u>PROCUREMENT</u>																															
INSTALLATION KITS (UNIT COST)																															
INSTALLATION KITS																7	3.059	5	2.185							12	5.244				
INSTALLATION KITS NONRECURRING																															
EQUIPMENT																															
EQUIPMENT NONRECURRING																															
ENGINEERING CHANGE ORDERS																															
DATA																															
TRAINING EQUIPMENT																															
SUPPORT EQUIPMENT																															
OTHER - PE																															
OTHER - ILS																															
OTHER - ATE																															
INTERIM CONTRACTOR SUPPORT																															
INSTALL COST - Non-FMP																	0.001	3	0.001	4	0.004	5	* 0.004		12	0.010					
TOTAL PROCUREMENT																7	3.084	5	2.265		0.024		0.004		12	5.377					

* Type Commander funded installation.

CLASSIFICATION: **UNCLASSIFIED**

INDIVIDUAL MODIFICATION (Continued)																									
P3A (Continued)																									
MODELS OF SYSTEMS AFFECTED: <u>CV(N) CATAPULTS</u>											MODIFICATION TITLE: <u>LAUNCH - HARDENED SHUTTLE</u>														
INSTALLATION INFORMATION:																									
METHOD OF IMPLEMENTATION: <u>VOYAGE REPAIR TEAM - VRT</u>																									
ADMINISTRATIVE LEADTIME: <u>3 Months</u>											PRODUCTION LEADTIME: <u>6 Months</u>														
CONTRACT DATES: FY 1997: <u>N/A</u> FY 1998: <u>N/A</u> FY 1999: <u>N/A</u>																									
DELIVERY DATE: FY 1997: <u>N/A</u> FY 1998: <u>N/A</u> FY 1999: <u>N/A</u>																									
(\$ in Millions)																									
Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
INSTALLATION SUPPORT																0.001		0.001			0.004			0.010	
PRIOR YEARS																									
FY 1995 EQUIPMENT																									
FY 1996 EQUIPMENT																									
FY 1997 EQUIPMENT																									
FY 1998 EQUIPMENT																									
FY 1999 EQUIPMENT																									
FY 2000 EQUIPMENT																									
FY 2001 EQUIPMENT																	3	*	4	*			7		
FY 2002 EQUIPMENT																				5	*	5	*		
FY 2003 EQUIPMENT																								*	
TO COMPLETE																									
INSTALL COST - Non-FMP																0.001	3	0.001	4	0.004	5	0.004	12	0.010	
INSTALLATION SCHEDULE:																									
	FY 1996 & Prior	FY 1997			FY 1998			FY 1999			FY 2000			FY 2001			FY 2002			FY 2003			TC	TOTAL	
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
In																								12	
Out																								12	
* Type Commander funded installation.																									

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CLASSIFICATION: **UNCLASSIFIED**

P3A		INDIVIDUAL MODIFICATION																									
MODELS OF SYSTEM AFFECTED:		<u>CV(N) CATAPULTS</u>						TYPE MODIFICATION:						<u>RELIABILITY / MAINTAINABILITY</u>						MODIFICATION TITLE:				<u>LAUNCH - TROUGH COVER BOLT</u>			
DESCRIPTION/JUSTIFICATION:																											
Launcher Service Change redesigns the trough cover support bar bolt to improve reliability and maintainability.																											
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:																											
<u>NOT APPLICABLE</u>																											
		<u>FY 1994 & Prior</u>		<u>FY 1995</u>		<u>FY 1996</u>		<u>FY 1997</u>		<u>FY 1998</u>		<u>FY 1999</u>		<u>FY 2000</u>		<u>FY 2001</u>		<u>FY 2002</u>		<u>FY 2003</u>		<u>TC</u>		<u>TOTAL</u>			
		QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$		
FINANCIAL PLAN (IN MILLIONS)																											
<u>RD&E</u>																											
<u>PROCUREMENT</u>																											
INSTALLATION KITS (UNIT COST)																											
INSTALLATION KITS																											
INSTALLATION KITS NONRECURRING																											
EQUIPMENT																											
EQUIPMENT NONRECURRING																											
ENGINEERING CHANGE ORDERS																											
DATA																											
TRAINING EQUIPMENT																											
SUPPORT EQUIPMENT																											
OTHER - PE																											
OTHER - ILS																											
OTHER - ATE																											
INTERIM CONTRACTOR SUPPORT																											
INSTALL COST - Non-FMP																											
TOTAL PROCUREMENT																											

* Type Commander funded installation.

CLASSIFICATION: **UNCLASSIFIED**

P3A (Continued) INDIVIDUAL MODIFICATION (Continued)																								
MODELS OF SYSTEMS AFFECTED: <u>CV(N) CATAPULTS</u>												MODIFICATION TITLE: <u>LAUNCH - TROUGH COVER BOLT</u>												
INSTALLATION INFORMATION: METHOD OF IMPLEMENTATION: <u>VOYAGE REPAIR TEAM - VRT</u> ADMINISTRATIVE LEADTIME: <u>3 Months</u> PRODUCTION LEADTIME: <u>6 Months</u> CONTRACT DATES: FY 1997: <u>N/A</u> FY 1998: <u>N/A</u> FY 1999: <u>N/A</u> DELIVERY DATE: FY 1997: <u>N/A</u> FY 1998: <u>N/A</u> FY 1999: <u>N/A</u>																								
(\$ in Millions)																								
Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
INSTALLATION SUPPORT																								
PRIOR YEARS																								
FY 1995 EQUIPMENT																								
FY 1996 EQUIPMENT																								
FY 1997 EQUIPMENT																								
FY 1998 EQUIPMENT																								
FY 1999 EQUIPMENT																								
FY 2000 EQUIPMENT																								
FY 2001 EQUIPMENT																								
FY 2002 EQUIPMENT																								
FY 2003 EQUIPMENT																					12	*	12	*
TO COMPLETE																								
INSTALL COST - Non-FMP																					12	*	12	*

		FY 1996 & Prior				FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4						
In																															12				
Out																															12				

* Type Commander funded installation.

CLASSIFICATION: **UNCLASSIFIED**

P3A		INDIVIDUAL MODIFICATION																													
MODELS OF SYSTEM AFFECTED:		C7, C13-0, C13-1 AND C13-2 CATAPULTS										TYPE MODIFICATION:					REPLACEMENT					MODIFICATION TITLE:					LAUNCH - LLLV REPLACEMENT				
DESCRIPTION/JUSTIFICATION:																															
Launcher Service Change 629 procured new Low Loss Launch Valves (LLLW) to satisfy fleet requirements.																															
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:																															
NOT APPLICABLE																															
	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL								
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$							
FINANCIAL PLAN (IN MILLIONS)																															
<i>RD&E</i>																															
<i>PROCUREMENT</i>																															
INSTALLATION KITS (UNIT COST)						0.288																									
INSTALLATION KITS					2	0.576															2	0.600	4	1.176							
INSTALLATION KITS NONRECURRING																															
EQUIPMENT																															
EQUIPMENT NONRECURRING																															
ENGINEERING CHANGE ORDERS																															
DATA																															
TRAINING EQUIPMENT																															
SUPPORT EQUIPMENT																															
OTHER - PE						0.127		0.036		0.036		0.025		0.015		0.015								0.254							
OTHER - ILS						0.080																		0.080							
OTHER - ATE								0.090		0.300														0.390							
INTERIM CONTRACTOR SUPPORT																															
INSTALL COST - Non-FMP								1	*				1	*							2	*	4	*							
TOTAL PROCUREMENT					2	0.783		0.126		0.336		0.025		0.015		0.015					2	0.600	4	1.900							

* Depot Maintenance item.

CLASSIFICATION: **UNCLASSIFIED**

P3A (Continued) INDIVIDUAL MODIFICATION (Continued)																								
MODELS OF SYSTEMS AFFECTED: <u>C7, C13-0, C13-1 AND C13-2 CATAPULTS</u>												MODIFICATION TITLE: <u>LAUNCH - LLLV REPLACEMENT</u>												
INSTALLATION INFORMATION:																								
METHOD OF IMPLEMENTATION: <u>DEPOT</u>																								
ADMINISTRATIVE LEADTIME: <u>11 Months</u>												PRODUCTION LEADTIME: <u>17 Months</u>												
CONTRACT DATES: FY 1997: <u>N/A</u>												FY 1998: <u>N/A</u> FY 1999: <u>N/A</u>												
DELIVERY DATE: FY 1997: <u>N/A</u>												FY 1998: <u>N/A</u> FY 1999: <u>N/A</u>												
(\$ in Millions)																								
Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
INSTALLATION SUPPORT																								
PRIOR YEARS																								
FY 1995 EQUIPMENT																								
FY 1996 EQUIPMENT									1	*			1	*									2	*
FY 1997 EQUIPMENT																								
FY 1998 EQUIPMENT																								
FY 1999 EQUIPMENT																								
FY 2000 EQUIPMENT																								
FY 2001 EQUIPMENT																								
FY 2002 EQUIPMENT																								
FY 2003 EQUIPMENT																								
TO COMPLETE																					2	*	2	
INSTALL COST - Non-FMP									1	*			1	*							2	*	4	*

INSTALLATION SCHEDULE:		FY 1996 & Prior				FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4						
In																														2	4				
Out																														2	4				

* Depot Maintenance item.

CLASSIFICATION: **UNCLASSIFIED**

P3A		INDIVIDUAL MODIFICATION																											
MODELS OF SYSTEM AFFECTED:		CVN CATAPULTS								TYPE MODIFICATION:				MAINTENANCE / SAFETY								MODIFICATION TITLE:				LAUNCH - ONE PIECE FDNGL COVER			
DESCRIPTION/JUSTIFICATION:																													
Launcher Service Change 424 for the CVN 72 class replaces the current three piece Flush Deck Nose Gear Launch (FDNGL) trough cover with a maintenance improved launch cover that protects the launch valve area from catapult effluents and other contaminants.																													
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:																													
NOT APLICABLE																													
	<u>FY 1994 & Prior</u>		<u>FY 1995</u>		<u>FY 1996</u>		<u>FY 1997</u>		<u>FY 1998</u>		<u>FY 1999</u>		<u>FY 2000</u>		<u>FY 2001</u>		<u>FY 2002</u>		<u>FY 2003</u>		<u>TC</u>		<u>TOTAL</u>						
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$					
FINANCIAL PLAN (IN MILLIONS)																													
<i>RD&E</i>																													
<i>PROCUREMENT</i>																													
INSTALLATION KITS (UNIT COST)		0.200					0.200		0.200				0.200									0.210		0.202					
INSTALLATION KITS	8	1.600					2	0.400	2	0.400			1	0.200							3	0.630	16	3.230					
INSTALLATION KITS NONRECURRING																													
EQUIPMENT																													
EQUIPMENT NONRECURRING																													
ENGINEERING CHANGE ORDERS																													
DATA																													
TRAINING EQUIPMENT																													
SUPPORT EQUIPMENT																													
OTHER - PE		0.060					0.016		0.016		0.016		0.016											0.124					
OTHER - ILS																													
OTHER - ATE																													
INTERIM CONTRACTOR SUPPORT																													
INSTALL COST - Non-FMP					0.006	8	0.919	2	0.245	2	0.240									4	0.621	16	2.031						
TOTAL PROCUREMENT	8	1.660			0.006	2	1.335	2	0.661		0.256	1	0.216							3	1.251	16	5.385						

CLASSIFICATION: **UNCLASSIFIED**

INDIVIDUAL MODIFICATION (Continued)																									
P3A (Continued)																									
MODELS OF SYSTEMS AFFECTED: <u>CVN CATAPULTS</u>											MODIFICATION TITLE: <u>LAUNCH - ONE PIECE FDNGL COVER</u>														
INSTALLATION INFORMATION:																									
METHOD OF IMPLEMENTATION: <u>SHIPYARD</u>																									
ADMINISTRATIVE LEADTIME: <u>7 Months</u>											PRODUCTION LEADTIME: <u>12 Months</u>														
CONTRACT DATES: FY 1997: <u>Apr-97</u>											FY 1998: <u>Dec-98</u>					FY 1999: <u>Dec-99</u>									
DELIVERY DATE: FY 1997: <u>Apr-98</u>											FY 1998: <u>Dec-99</u>					FY 1999: <u>Dec-00</u>									
(\$ in Millions)																									
Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
INSTALLATION SUPPORT						0.006		0.018		0.021		0.010												0.055	
PRIOR YEARS							8	0.901															8	0.901	
FY 1995 EQUIPMENT																									
FY 1996 EQUIPMENT																									
FY 1997 EQUIPMENT									2	0.224													2	0.224	
FY 1998 EQUIPMENT											2	0.230											2	0.230	
FY 1999 EQUIPMENT																									
FY 2000 EQUIPMENT																					1	0.121	1	0.121	
FY 2001 EQUIPMENT																									
FY 2002 EQUIPMENT																									
FY 2003 EQUIPMENT																									
TO COMPLETE																					3	0.500	3	0.500	
INSTALL COST - Non-FMP						0.006	8	0.919	2	0.245	2	0.240									4	0.621	16	2.031	
INSTALLATION SCHEDULE:																									
	FY 1996 & Prior	FY 1997			FY 1998			FY 1999			FY 2000			FY 2001			FY 2002			FY 2003			TC	TOTAL	
In	8	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	4	16		
Out			1	3	4			1	1				1									4	16		

P-3A

CLASSIFICATION: **UNCLASSIFIED**

P3A		INDIVIDUAL MODIFICATION																													
MODELS OF SYSTEM AFFECTED:		<u>C13-0 AND C13-1 CATAPULTS</u>										TYPE MODIFICATION:					<u>MAINTAINABILITY</u>					MODIFICATION TITLE:					<u>LAUNCH - INCONEL BOLTS</u>				
DESCRIPTION/JUSTIFICATION:																															
Launcher Service Change 624 incorporates Corrosion Resistant Steel / material technology by replacing the existing steel retainer bar bolts with Inconel bolts.																															
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:																															
<u>NOT APPLICABLE</u>																															
		<u>FY 1994 & Prior</u>		<u>FY 1995</u>		<u>FY 1996</u>		<u>FY 1997</u>		<u>FY 1998</u>		<u>FY 1999</u>		<u>FY 2000</u>		<u>FY 2001</u>		<u>FY 2002</u>		<u>FY 2003</u>		<u>TC</u>		<u>TOTAL</u>							
		QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$						
FINANCIAL PLAN (IN MILLIONS)																															
<u>RD&E</u>																															
<u>PROCUREMENT</u>																															
INSTALLATION KITS (UNIT COST)																															
INSTALLATION KITS																															
INSTALLATION KITS NONRECURRING																															
EQUIPMENT																															
EQUIPMENT NONRECURRING																															
ENGINEERING CHANGE ORDERS																															
DATA																															
TRAINING EQUIPMENT																															
SUPPORT EQUIPMENT																															
OTHER - PE																															
OTHER - ILS																															
OTHER - ATE																															
INTERIM CONTRACTOR SUPPORT																															
INSTALL COST - Non-FMP																															
TOTAL PROCUREMENT																															

* Organizational level maintenance replacement item.

** Catapult sets of 1,000 bolts per catapult.

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CLASSIFICATION: **UNCLASSIFIED**

CLASSIFICATION: **UNCLASSIFIED**

INDIVIDUAL MODIFICATION (Continued)																									
P3A (Continued)																									
MODELS OF SYSTEMS AFFECTED: <u>C13-0 AND C13-1 CATAPULTS</u>												MODIFICATION TITLE: <u>LAUNCH - INCONEL BOLTS</u>													
INSTALLATION INFORMATION:																									
METHOD OF IMPLEMENTATION: <u>SHIPS FORCE</u>																									
ADMINISTRATIVE LEADTIME: <u>4 Months</u>												PRODUCTION LEADTIME: <u>7 Months</u>													
CONTRACT DATES: FY 1997: <u>N/A</u> FY 1998: <u>1/15/98</u> FY 1999: <u>1/15/99</u>																									
DELIVERY DATE: FY 1997: <u>N/A</u> FY 1998: <u>8/15/98</u> FY 1999: <u>8/15/99</u>																									
(\$ in Millions)																									
Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
INSTALLATION SUPPORT										0.002		0.002		0.002										0.006	
PRIOR YEARS																									
FY 1995 EQUIPMENT																									
FY 1996 EQUIPMENT																									
FY 1997 EQUIPMENT																									
FY 1998 EQUIPMENT											**7	*	**5	*									**12	*	
FY 1999 EQUIPMENT													**5	*	**7	*							**12	*	
FY 2000 EQUIPMENT															**2	*	**6	*					**8	*	
FY 2001 EQUIPMENT																									
FY 2002 EQUIPMENT																									
FY 2003 EQUIPMENT																									
TO COMPLETE																									
INSTALL COST - Non-FMP										0.002	**7	0.002	**10	0.002	**9	*	**6	*					**32	0.006	
INSTALLATION SCHEDULE:																									
	FY 1996 & Prior	FY 1997			FY 1998			FY 1999			FY 2000			FY 2001			FY 2002			FY 2003			TC	TOTAL	
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		** 32		
In **																							** 32		
Out **																							** 32		
* Organizational level maintenance replacement item. ** Catapult sets of 1,000 bolts per catapult.																									

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CLASSIFICATION: **UNCLASSIFIED**

P3A		INDIVIDUAL MODIFICATION																													
MODELS OF SYSTEM AFFECTED:		<u>C7, C13-0, C13-1 AND C13-2 CATAPULTS</u>										TYPE MODIFICATION:					<u>RETROFIT CAPABILITY</u>					MODIFICATION TITLE:					<u>LAUNCH - T-2 AND TA-4 BRIDLES</u>				
DESCRIPTION/JUSTIFICATION:																															
Launcher Service Change 275 provides T-2 Buckeye and TA-4 Skyhawk aircraft launch capability on CV(N)s without installed bridle arrestors.																															
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:																															
<u>NOT APPLICABLE</u>																															
	<u>FY 1994 & Prior</u>		<u>FY 1995</u>		<u>FY 1996</u>		<u>FY 1997</u>		<u>FY 1998</u>		<u>FY 1999</u>		<u>FY 2000</u>		<u>FY 2001</u>		<u>FY 2002</u>		<u>FY 2003</u>		<u>TC</u>		<u>TOTAL</u>								
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$							
FINANCIAL PLAN (IN MILLIONS)																															
<i>RD&E</i>																															
<i>PROCUREMENT</i>																															
INSTALLATION KITS (UNIT COST)																															
INSTALLATION KITS																															
INSTALLATION KITS NONRECURRING																															
EQUIPMENT																															
EQUIPMENT NONRECURRING																															
ENGINEERING CHANGE ORDERS																															
DATA																															
TRAINING EQUIPMENT																															
SUPPORT EQUIPMENT																															
OTHER - PE																															
OTHER - ILS																															
OTHER - ATE																															
INTERIM CONTRACTOR SUPPORT																															
INSTALL COST - Non-FMP																															
TOTAL PROCUREMENT																															

* This is an Organizational Operations / Maintenance item with minimal NFMP installation support costs.

CLASSIFICATION: **UNCLASSIFIED**

P3A (Continued)

INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: C7, C13-0, C13-1 AND C13-2 CATAPULTS MODIFICATION TITLE: LAUNCH - T-2 AND TA-4 BRIDLES

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: "O" LEVEL MAINTENANCE / OPERATIONS

ADMINISTRATIVE LEADTIME: NOT APPLICABLE

PRODUCTION LEADTIME: NOT APPLICABLE

CONTRACT DATES: FY 1997: N/A FY 1998: N/A FY 1999: N/A

DELIVERY DATE: FY 1997: N/A FY 1998: N/A FY 1999: N/A

(\$ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
INSTALLATION SUPPORT						0.016		0.016																0.032
PRIOR YEARS																								
FY 1995 EQUIPMENT																								
FY 1996 EQUIPMENT							1750	*	440	*													2190	
FY 1997 EQUIPMENT																								
FY 1998 EQUIPMENT																								
FY 1999 EQUIPMENT																								
FY 2000 EQUIPMENT																								
FY 2001 EQUIPMENT																								
FY 2002 EQUIPMENT																								
FY 2003 EQUIPMENT																								
TO COMPLETE																								
INSTALL COST - Non-FMP						0.016	1750	0.016	440	*													2190	0.032

INSTALLATION SCHEDULE:

	FY 1996 & Prior	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	400	450	450	450	440																						2190
Out		400	450	450	450	440																					2190

* This is an Organizational Operations / Maintenance item with minimal NFMP installation support costs.

P-3A

CLASSIFICATION: **UNCLASSIFIED**

P3A		INDIVIDUAL MODIFICATION										
MODELS OF SYSTEM AFFECTED: <u>C7, C13-0, C13-1 AND C13-2 CATAPULTS</u>		TYPE MODIFICATION: <u>SAFETY</u>										
MODIFICATION TITLE: <u>LAUNCH - F-14 HOLDBACK BARS</u>												
DESCRIPTION/JUSTIFICATION: Launcher Catapult Deck Gear and Accessories Service Change 276 shortens the F-14 Tomcat reusable holdback launch bars to correct / eliminate mis-positioning of the launch bar during catapult to aircraft hook-up. This service change will be accomplished in conjunction with the normal F-14 holdback launch bar overhaul cycle.												
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: <u>NOT APPLICABLE</u>												
	FY 1994 & Prior	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	TC	TOTAL
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)												
<u>RD&E</u>												
<u>PROCUREMENT</u>												
INSTALLATION KITS (UNIT COST)						0.001		0.001				0.001
INSTALLATION KITS					200	0.120	100	0.065				300 0.185
INSTALLATION KITS NONRECURRING												
EQUIPMENT												
EQUIPMENT NONRECURRING												
ENGINEERING CHANGE ORDERS												
DATA												
TRAINING EQUIPMENT												
SUPPORT EQUIPMENT												
OTHER - PE				0.065		0.009		0.010				0.084
OTHER - ILS				0.006								0.006
OTHER - ATE												
INTERIM CONTRACTOR SUPPORT												
INSTALL COST - Non-FMP					0.013	100	0.070	200	0.008			300 0.091
TOTAL PROCUREMENT					0.084	200	0.199	100	0.083			300 0.366

CLASSIFICATION: **UNCLASSIFIED**

INDIVIDUAL MODIFICATION (Continued)																															
P3A (Continued)																															
MODELS OF SYSTEMS AFFECTED: <u>C7, C13-0, C13-1 AND C13-2 CATAPULTS</u>											MODIFICATION TITLE: <u>LAUNCH - F-14 HOLDBACK BARS</u>																				
INSTALLATION INFORMATION:																															
METHOD OF IMPLEMENTATION: <u>DEPOT</u>																															
ADMINISTRATIVE LEADTIME: <u>N/A Months</u>																															
PRODUCTION LEADTIME: <u>N/A Months</u>																															
CONTRACT DATES: FY 1997: <u>N/A</u> FY 1998: <u>N/A</u> FY 1999: <u>N/A</u>																															
DELIVERY DATE: FY 1997: <u>N/A</u> FY 1998: <u>N/A</u> FY 1999: <u>N/A</u>																															
(\$ in Millions)																															
Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total								
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$							
INSTALLATION SUPPORT						0.013		0.070		0.008														0.091							
PRIOR YEARS																															
FY 1995 EQUIPMENT																															
FY 1996 EQUIPMENT																															
FY 1997 EQUIPMENT							100	*	100	*													200	*							
FY 1998 EQUIPMENT									100	*													100	*							
FY 1999 EQUIPMENT																															
FY 2000 EQUIPMENT																															
FY 2001 EQUIPMENT																															
FY 2002 EQUIPMENT																															
FY 2003 EQUIPMENT																															
TO COMPLETE																															
INSTALL COST - Non-FMP						0.013	100	0.070	200	0.008													300	0.091							
INSTALLATION SCHEDULE:																															
	FY 1996 & Prior	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		TOTAL				
In		50	50	50		50	50	50																			300				
Out		25	25	50		50	50	50	50																		300				
* Service Change installation incorporated during normally scheduled depot maintenance.																															

CLASSIFICATION: **UNCLASSIFIED**

P3A		INDIVIDUAL MODIFICATION	
MODELS OF SYSTEM AFFECTED: <u>CV(N) CATAPULTS</u>		TYPE MODIFICATION: <u>RELIABILITY / MAINTAINABILITY</u>	
MODIFICATION TITLE: <u>LAUNCH - CAT WATER BRAKE</u>			
DESCRIPTION/JUSTIFICATION:			
Launcher Service Change 612 for the Catapult Water Brake System standardizes all pumps to the CVN 68 class configuration.			
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: <u>NOT APPLICABLE</u>			

	<u>FY 1994 & Prior</u>		<u>FY 1995</u>		<u>FY 1996</u>		<u>FY 1997</u>		<u>FY 1998</u>		<u>FY 1999</u>		<u>FY 2000</u>		<u>FY 2001</u>		<u>FY 2002</u>		<u>FY 2003</u>		<u>TC</u>		<u>TOTAL</u>	
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																								
<u>RD&E</u>																								
<u>PROCUREMENT</u>																								
INSTALLATION KITS (UNIT COST)		0.045																						0.045
INSTALLATION KITS	16	0.720																					16	0.720
INSTALLATION KITS NONRECURRING																								
EQUIPMENT																								
EQUIPMENT NONRECURRING																								
ENGINEERING CHANGE ORDERS																								
DATA																								
TRAINING EQUIPMENT																								
SUPPORT EQUIPMENT																								
OTHER - PE		0.040		0.020																				0.060
OTHER - ILS		0.020		0.015																				0.035
OTHER - ATE																								
INTERIM CONTRACTOR SUPPORT																								
INSTALL COST - FMP					8	0.400	8	0.430															16	0.830
TOTAL PROCUREMENT	16	0.780		0.035		0.400		0.430															16	1.645

CLASSIFICATION: **UNCLASSIFIED**

P3A (Continued)																								
INDIVIDUAL MODIFICATION (Continued)																								
MODELS OF SYSTEMS AFFECTED: <u>CV(N) CATAPULTS</u>												MODIFICATION TITLE: <u>LAUNCH - CAT WATER BRAKE</u>												
INSTALLATION INFORMATION: METHOD OF IMPLEMENTATION: <u>SHIPYARD - SHIP ALTERATION (SA)</u> ADMINISTRATIVE LEADTIME: <u>Months</u> PRODUCTION LEADTIME: <u>Months</u> CONTRACT DATES: FY 1997: <u>N/A</u> FY 1998: <u>N/A</u> FY 1999: <u>N/A</u> DELIVERY DATE: FY 1997: <u>N/A</u> FY 1998: <u>N/A</u> FY 1999: <u>N/A</u>																								
(\$ in Millions)																								
Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
INSTALLATION SUPPORT						0.026		0.088																0.114
PRIOR YEARS					8	0.374	8	0.342															16	0.716
FY 1995 EQUIPMENT																								
FY 1996 EQUIPMENT																								
FY 1997 EQUIPMENT																								
FY 1998 EQUIPMENT																								
FY 1999 EQUIPMENT																								
FY 2000 EQUIPMENT																								
FY 2001 EQUIPMENT																								
FY 2002 EQUIPMENT																								
FY 2003 EQUIPMENT																								
TO COMPLETE																								
INSTALL COST - FMP					8	0.400	8	0.430															16	0.830

INSTALLATION SCHEDULE:		FY 1996 & Prior				FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4						
In	16																														16				
Out	8				8																										16				

P-3A

CLASSIFICATION: **UNCLASSIFIED**

P3A		INDIVIDUAL MODIFICATION	
MODELS OF SYSTEM AFFECTED: <u> MK7 JET BLAST DEFLECTOR </u>		TYPE MODIFICATION: <u> SUPPORTABILITY / CONFIGURATION </u> MODIFICATION TITLE: <u> LAUNCH - JET BLAST DEFLECTOR </u>	
DESCRIPTION/JUSTIFICATION: <div style="border: 1px solid black; padding: 5px; min-height: 50px;"> Launcher Service Change (SHIPALT 7172) to the MK7 Jet Blast Deflector (JBD) is an improved design that is supportable, reliable, and maintainable; is standard across the ship class; and is F/A-18 Hornet compatible. </div>			
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:		<u> NOT APPLICABLE </u>	

	<u>FY 1994 & Prior</u>		<u>FY 1995</u>		<u>FY 1996</u>		<u>FY 1997</u>		<u>FY 1998</u>		<u>FY 1999</u>		<u>FY 2000</u>		<u>FY 2001</u>		<u>FY 2002</u>		<u>FY 2003</u>		<u>TC</u>		<u>TOTAL</u>	
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																								
<i>RD&E</i>																								
<i>PROCUREMENT</i>																								
INSTALLATION KITS (UNIT COST)		0.168																						0.168
INSTALLATION KITS	9	1.513																					9	1.513
INSTALLATION KITS NONRECURRING																								
EQUIPMENT																								
EQUIPMENT NONRECURRING																								
ENGINEERING CHANGE ORDERS																								
DATA																								
TRAINING EQUIPMENT																								
SUPPORT EQUIPMENT																								
OTHER - PE		0.090		0.045		0.045																		0.180
OTHER - ILS		0.090		0.045		0.045																		0.180
OTHER - ATE																								
INTERIM CONTRACTOR SUPPORT																								
INSTALL COST - FMP					2	1.477	3	3.676	1	1.045	3	4.451											9	10.649
TOTAL PROCUREMENT	9	1.693		0.090		1.567		3.676		1.045		4.451											9	12.522

CLASSIFICATION: **UNCLASSIFIED**

P3A (Continued)																								
INDIVIDUAL MODIFICATION (Continued)																								
MODELS OF SYSTEMS AFFECTED: <u>MK7 JET BLAST DEFLECTOR</u>												MODIFICATION TITLE: <u>LAUNCH - JET BLAST DEFLECTOR</u>												
INSTALLATION INFORMATION: METHOD OF IMPLEMENTATION: <u>SHIPYARD - SHIP ALTERATION (SA)</u> ADMINISTRATIVE LEADTIME: <u>Months</u> PRODUCTION LEADTIME: <u>Months</u> CONTRACT DATES: FY 1997: <u>N/A</u> FY 1998: <u>N/A</u> FY 1999: <u>N/A</u> DELIVERY DATE: FY 1997: <u>N/A</u> FY 1998: <u>N/A</u> FY 1999: <u>N/A</u>																								
(\$ in Millions)																								
Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
INSTALLATION SUPPORT						0.035		0.088		0.079		0.106												0.308
PRIOR YEARS					2	1.442	3	3.588	1	0.966	3	4.345											9	10.341
FY 1995 EQUIPMENT																								
FY 1996 EQUIPMENT																								
FY 1997 EQUIPMENT																								
FY 1998 EQUIPMENT																								
FY 1999 EQUIPMENT																								
FY 2000 EQUIPMENT																								
FY 2001 EQUIPMENT																								
FY 2002 EQUIPMENT																								
FY 2003 EQUIPMENT																								
TO COMPLETE																								
INSTALL COST - FMP					2	1.477	3	3.676	1	1.045	3	4.451											9	10.649

INSTALLATION SCHEDULE:		FY 1996 & Prior				FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4						
In	9																														9				
Out	2	1	2			1				1	2																				9				

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CLASSIFICATION: **UNCLASSIFIED**

P3A		INDIVIDUAL MODIFICATION																							
MODELS OF SYSTEM AFFECTED: <u>LAUNCHER EQUIPMENT</u>		TYPE MODIFICATION: <u>IMPROVED CAPABILITIES</u>										MODIFICATION TITLE: <u>LAUNCHER - MISC S/Cs</u>													
DESCRIPTION/JUSTIFICATION: This includes various Launcher Service Changes procured or installed with prior year funding, of limited dollar value, and future year procurements. Included in this exhibit are the Shuttle Spreader, Filter Booster Pump, Jet Blast Deflector (JBD) Port Control, Lube Meter Injectors, Modification to the Relay Status system, Seven Segment Display, RRE Hydraulic Motor Control, Splash Plate, and the Trough Heater Support Replacement.																									
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: <u>NOT APPLICABLE</u>																									
	<u>FY 1994 & Prior</u>		<u>FY 1995</u>		<u>FY 1996</u>		<u>FY 1997</u>		<u>FY 1998</u>		<u>FY 1999</u>		<u>FY 2000</u>		<u>FY 2001</u>		<u>FY 2002</u>		<u>FY 2003</u>		<u>TC</u>		<u>TOTAL</u>		
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	
FINANCIAL PLAN (IN MILLIONS)																									
<u>RDT&E</u>																									
<u>PROCUREMENT</u>																									
INSTALLATION KITS (UNIT COST)																									
				0.172				0.158							0.178				0.174						0.173
INSTALLATION KITS																									
			26	4.484			4	0.633						5	0.890			15	2.614	10	1.763		60	10.384	
INSTALLATION KITS NONRECURRING																									
EQUIPMENT																									
EQUIPMENT NONRECURRING																									
ENGINEERING CHANGE ORDERS																									
DATA																									
TRAINING EQUIPMENT																									
SUPPORT EQUIPMENT																									
OTHER - PE																									
				0.900		0.444		0.196		0.005		0.020		0.021		0.162		0.100		0.200					2.048
OTHER - ILS																									
				0.183		0.191		0.040		0.079		0.056		0.011		0.100		0.125		0.075					0.860
OTHER - ATE																									
															0.047		0.050		0.060						0.157
INTERIM CONTRACTOR SUPPORT																									
INSTALL COST - Non-FMP																									
	*	18.445	*	12.960	*	2.928	26	3.599	4	0.943		0.047		0.015			5	0.148	5	0.550	20	1.790		60	41.425
TOTAL PROCUREMENT																									
		18.445	26	18.527		3.563	4	4.468		1.027		0.123		0.047	5	1.199		0.423	15	3.499	10	3.553		60	54.874

* Various

CLASSIFICATION: **UNCLASSIFIED**

INDIVIDUAL MODIFICATION (Continued)																											
P3A (Continued)																											
MODELS OF SYSTEMS AFFECTED: <u>LAUNCHER EQUIPMENT</u>										MODIFICATION TITLE: <u>LAUNCHER - MISC S/Cs</u>																	
INSTALLATION INFORMATION:																											
METHOD OF IMPLEMENTATION: <u>VRT AND DEPOT</u>																											
ADMINISTRATIVE LEADTIME: <u>N/A Months</u>																											
PRODUCTION LEADTIME: <u>N/A Months</u>																											
CONTRACT DATES: FY 1997: <u>VARIOUS</u> FY 1998: <u>VARIOUS</u> FY 1999: <u>N/A</u>																											
DELIVERY DATE: FY 1997: <u>VARIOUS</u> FY 1998: <u>VARIOUS</u> FY 1999: <u>N/A</u>																											
(\$ in Millions)																											
Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total				
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$			
INSTALLATION SUPPORT								0.078		0.045		0.047		0.015				0.008		0.050				0.243			
PRIOR YEARS	*	18.445	*	12.960	*	2.928																		34.333			
FY 1995 EQUIPMENT							26	3.521															26	3.521			
FY 1996 EQUIPMENT																											
FY 1997 EQUIPMENT									4	0.898													4	0.898			
FY 1998 EQUIPMENT																											
FY 1999 EQUIPMENT																											
FY 2000 EQUIPMENT																											
FY 2001 EQUIPMENT																5	0.140						5	0.140			
FY 2002 EQUIPMENT																											
FY 2003 EQUIPMENT																		5	0.500	10	1.000	15	1.500				
TO COMPLETE																				10	0.790	10	0.790				
INSTALL COST - Non-FMP	*	18.445	*	12.960	*	2.928	26	3.599	4	0.943		0.047		0.015		5	0.148	5	0.550	20	1.790	60	41.425				
INSTALLATION SCHEDULE:																											
	FY 1996 & Prior	FY 1997			FY 1998			FY 1999			FY 2000			FY 2001			FY 2002			FY 2003			TC				
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	26 *					4												5				1	2	2	2	20	60
Out		6	7	6	7	1	1	2								3	2			1	4			1	4	20	60
* Various																											

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CLASSIFICATION: **UNCLASSIFIED**

P3A		INDIVIDUAL MODIFICATION																													
MODELS OF SYSTEM AFFECTED:		VARIOUS										TYPE MODIFICATION:					VARIOUS					MODIFICATION TITLE:					VLA S/C SUMMARY				
DESCRIPTION/JUSTIFICATION:																															
Summary page of all Visual Landing Aids (VLA) Service Changes.																															
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:																															
NOT APPLICABLE																															
	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL								
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$							
FINANCIAL PLAN (IN MILLIONS)																															
RDT&E																															
PROCUREMENT																															
INSTALLATION KITS (UNIT COST)			0.037		0.022		0.025				0.072		0.038				0.031		0.030		0.030										
INSTALLATION KITS		31	1.153	138	3.104	24	0.609			20	1.430	12	0.456			49	1.500	66	2.000	139	4.196			CONTINUING							
INSTALLATION KITS NONRECURRING																															
EQUIPMENT																															
EQUIPMENT NONRECURRING																															
ENGINEERING CHANGE ORDERS																															
DATA																															
TRAINING EQUIPMENT																															
SUPPORT EQUIPMENT																															
OTHER - PE			0.297		0.940		0.232		0.222		0.185		0.144		0.020		0.150		0.148		0.300			CONTINUING							
OTHER - ILS			0.148		0.195		0.083		0.070		0.127		0.035		0.015		0.100		0.100		0.232			CONTINUING							
OTHER - ATE																0.050		0.065		0.100			CONTINUING								
INTERIM CONTRACTOR SUPPORT																															
INSTALL COST		**2	2.372	**3	1.627	5	1.324	117	1.477	48	0.516	26	1.524	19	1.517	8	0.323	37	1.163	73	1.816	141	2.465	CONTINUING							
TOTAL PROCUREMENT		31	3.970	138	5.866	24	2.248		1.769	20	2.258	12	2.159		1.552	49	2.123	66	3.476	139	6.644		2.465	CONTINUING							

** Various

CLASSIFICATION: UNCLASSIFIED

P3A (Continued)

INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: VARIOUS

MODIFICATION TITLE: VLA S/C SUMMARY

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: VARIOUS

ADMINISTRATIVE LEADTIME: VARIOUS Months

PRODUCTION LEADTIME: VARIOUS Months

CONTRACT DATES: FY 1997: VARIOUS

FY 1998: VARIOUS

FY 1999: VARIOUS

DELIVERY DATE: FY 1997: VARIOUS

FY 1998: VARIOUS

FY 1999: VARIOUS

(\$ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
INSTALLATION SUPPORT						0.030		0.547		0.132		0.140		0.077		0.113		0.065		0.050		Continuing	Continuing	
PRIOR YEARS	** 2	2.372	** 3	1.627	4	1.294	13	0.167	6	0.147	1	0.057	2	0.105								Continuing	Continuing	
FY 1995 EQUIPMENT					1	*	104	0.763	18	0.038	13	0.040					2	*				Continuing	Continuing	
FY 1996 EQUIPMENT									24	0.199												Continuing	Continuing	
FY 1997 EQUIPMENT																						Continuing	Continuing	
FY 1998 EQUIPMENT											6	1.107	11	1.155	3	0.027						Continuing	Continuing	
FY 1999 EQUIPMENT											6	0.180	6	0.180								Continuing	Continuing	
FY 2000 EQUIPMENT																						Continuing	Continuing	
FY 2001 EQUIPMENT															5	0.183	20	0.690	16	0.566		Continuing	Continuing	
FY 2002 EQUIPMENT																	15	0.408	30	0.816		Continuing	Continuing	
FY 2003 EQUIPMENT																			27	0.384		Continuing	Continuing	
TO COMPLETE																						Continuing	Continuing	
INSTALL COST	**2	2.372	**3	1.627	5	1.324	117	1.477	48	0.516	26	1.524	19	1.517	8	0.323	37	1.163	73	1.816		Continuing	Continuing	

INSTALLATION SCHEDULE:

	FY 1996 & Prior	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
In	**137 *	21	9	9	9	8			3	3	3	6		8	3			3	9	15		17	15	15	15	17	22	23	23	83	479
Out	**10	20	32	35	30	9	17	11	11	2	10	6	8	2	5	6	6	1	2	5		8	10	8	11	15	20	25	13	143	479

* Type Commander funded installation.

** Various

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CLASSIFICATION: **UNCLASSIFIED**

P3A

INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED: LHA / LHD PRIMARY FLIGHT CONTROL TYPE MODIFICATION: IMPROVED CAPABILITY MODIFICATION TITLE: VLA - LHA / LHD PRIFLY (ACS)

DESCRIPTION/JUSTIFICATION:

This Service Change installs Night Vision Device (NVD) compatible filters and lenses aboard LHA / LHD class ships to ensure Primary Flight Control is compatible with NVD operations.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

NOT APPLICABLE

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																								
<i>RD&E</i>																								
<i>PROCUREMENT</i>																								
INSTALLATION KITS (UNIT COST)												0.038												0.038
INSTALLATION KITS											12	0.456											12	0.456
INSTALLATION KITS NONRECURRING																								
EQUIPMENT																								
EQUIPMENT NONRECURRING																								
ENGINEERING CHANGE ORDERS																								
DATA																								
TRAINING EQUIPMENT																								
SUPPORT EQUIPMENT																								
OTHER - PE							0.050		0.106		0.079													0.235
OTHER - ILS							0.010		0.045		0.015													0.070
OTHER - ATE																								
INTERIM CONTRACTOR SUPPORT																								
INSTALL COST - Non-FMP										6	0.200	6	0.220		0.035								12	0.455
TOTAL PROCUREMENT							0.060		0.151	12	0.750		0.220		0.035								12	1.216

CLASSIFICATION: **UNCLASSIFIED**

P3A (Continued)

INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: LHA / LHD PRIMARY FLIGHT CONTROL MODIFICATION TITLE: VLA - LHA / LHD PRIFLY (ACS)

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: DEPOT

ADMINISTRATIVE LEADTIME: 1 Months

PRODUCTION LEADTIME: 6 Months

CONTRACT DATES: FY 1997: N/A

FY 1998: N/A

FY 1999: Oct-98

DELIVERY DATE: FY 1997: N/A

FY 1998: N/A

FY 1999: Apr-99

(\$ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
INSTALLATION SUPPORT												0.020		0.040		0.035								0.095
PRIOR YEARS																								
FY 1995 EQUIPMENT																								
FY 1996 EQUIPMENT																								
FY 1997 EQUIPMENT																								
FY 1998 EQUIPMENT																								
FY 1999 EQUIPMENT											6	0.180	6	0.180									12	0.360
FY 2000 EQUIPMENT																								
FY 2001 EQUIPMENT																								
FY 2002 EQUIPMENT																								
FY 2003 EQUIPMENT																								
TO COMPLETE																								
INSTALL COST - Non-FMP											6	0.200	6	0.220		0.035							12	0.455

INSTALLATION SCHEDULE:

	FY 1996 & Prior	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In																											12
Out																											12

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CLASSIFICATION: **UNCLASSIFIED**

P3A		INDIVIDUAL MODIFICATION																						
MODELS OF SYSTEM AFFECTED: <u>CENTERLINE GUIDE LIGHTING</u>		TYPE MODIFICATION: <u>RELIABILITY / MAINTAINABILITY</u>										MODIFICATION TITLE: <u>VLA - L CLASS C-L LIGHTING</u>												
DESCRIPTION/JUSTIFICATION: Replaces the existing Center Line TRAM line lights and system with fiber optics to improve reliability and maintainability of launch and recovery center line lighting aboard LHD / LHD class ships.																								
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: <u>NOT APPLICABLE</u>																								
	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																								
<u>RDT&E</u>																								
<u>PROCUREMENT</u>																								
INSTALLATION KITS (UNIT COST)										0.098														0.098
INSTALLATION KITS									12	1.175													12	1.175
INSTALLATION KITS NONRECURRING																								
EQUIPMENT																								
EQUIPMENT NONRECURRING																								
ENGINEERING CHANGE ORDERS																								
DATA																								
TRAINING EQUIPMENT																								
SUPPORT EQUIPMENT																								
OTHER - PE								0.010		0.074		0.045												0.129
OTHER - ILS								0.010		0.019														0.029
OTHER - ATE																								
INTERIM CONTRACTOR SUPPORT																								
INSTALL COST - Non-FMP											6	1.138	6	1.137		0.021							12	2.296
TOTAL PROCUREMENT								0.020	12	1.268		1.183		1.137		0.021							12	3.629

CLASSIFICATION: **UNCLASSIFIED**

P3A (Continued)

INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: CENTERLINE GUIDE LIGHTING MODIFICATION TITLE: VLA - L CLASS C-L LIGHTING

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: DEPOT

ADMINISTRATIVE LEADTIME: 3 Months

PRODUCTION LEADTIME: 6 Months

CONTRACT DATES: FY 1997: N/A

FY 1998: Dec-97

FY 1999: Oct-98

DELIVERY DATE: FY 1997: N/A

FY 1998: Jul-98

FY 1999: Apr-99

(\$ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
INSTALLATION SUPPORT												0.031		0.030		0.021								0.082
PRIOR YEARS																								
FY 1995 EQUIPMENT																								
FY 1996 EQUIPMENT																								
FY 1997 EQUIPMENT																								
FY 1998 EQUIPMENT											6	1.107	6	1.107									12	2.214
FY 1999 EQUIPMENT																								
FY 2000 EQUIPMENT																								
FY 2001 EQUIPMENT																								
FY 2002 EQUIPMENT																								
FY 2003 EQUIPMENT																								
TO COMPLETE																								
INSTALL COST - Non-FMP											6	1.138	6	1.137		0.021							12	2.296

INSTALLATION SCHEDULE:

In Out	FY 1996 & Prior	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
									3	3		3	3			2	2	2	1	1	2	2									
																															12

P-3A

CLASSIFICATION: **UNCLASSIFIED**

P3A INDIVIDUAL MODIFICATION																								
MODELS OF SYSTEM AFFECTED: <u>FLOLS MK-6</u>				TYPE MODIFICATION: <u>IMPROVED CAPABILITY</u>				MODIFICATION TITLE: <u>VLA - FLOLS SHOCK HARDENING</u>																
DESCRIPTION/JUSTIFICATION: Visual Landing Aides (VLA) Service Change 116 provides shock hardening to the Fresnel Optical Landing System (IFLOLS) to increase system reliability and capability																								
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: <u>NOT APPLICABLE</u>																								
	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																								
<u>RDT&E</u>																								
<u>PROCUREMENT</u>																								
INSTALLATION KITS (UNIT COST)		0.054																						0.054
INSTALLATION KITS	16	0.864																					16	0.864
INSTALLATION KITS NONRECURRING																								
EQUIPMENT																								
EQUIPMENT NONRECURRING																								
ENGINEERING CHANGE ORDERS																								
DATA																								
TRAINING EQUIPMENT																								
SUPPORT EQUIPMENT																								
OTHER - PE		0.050																						0.050
OTHER - ILS		0.060																						0.060
OTHER - ATE																								
INTERIM CONTRACTOR SUPPORT																								
INSTALL COST - Non-FMP	2	0.114	3	0.167	4	0.224	2	0.125	2	0.142	1	0.067	2	0.105									16	0.944
TOTAL PROCUREMENT	16	1.088		0.167		0.224		0.125		0.142		0.067		0.105									16	1.918

CLASSIFICATION: **UNCLASSIFIED**

P3A (Continued)

INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: FLOLS MK-6

MODIFICATION TITLE: VLA - FLOLS SHOCK HARDENING

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: SHIPYARD

ADMINISTRATIVE LEADTIME: 1 Months

PRODUCTION LEADTIME: 12 Months

CONTRACT DATES: FY 1997: N/A

FY 1998: N/A

FY 1999: N/A

DELIVERY DATE: FY 1997: N/A

FY 1998: N/A

FY 1999: N/A

(\$ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
INSTALLATION SUPPORT						0.030		0.020		0.020		0.010												0.080
PRIOR YEARS	2	0.114	3	0.167	4	0.194	2	0.105	2	0.122	1	0.057	2	0.105									16	0.864
FY 1995 EQUIPMENT																								
FY 1996 EQUIPMENT																								
FY 1997 EQUIPMENT																								
FY 1998 EQUIPMENT																								
FY 1999 EQUIPMENT																								
FY 2000 EQUIPMENT																								
FY 2001 EQUIPMENT																								
FY 2002 EQUIPMENT																								
FY 2003 EQUIPMENT																								
TO COMPLETE																								
INSTALL COST - Non-FMP	2	0.114	3	0.167	4	0.224	2	0.125	2	0.142	1	0.067	2	0.105									16	0.944

INSTALLATION SCHEDULE:

	FY 1996 & Prior	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	16																										16
Out	9	1			1	1			1				1	1													16

P-3A

CLASSIFICATION: **UNCLASSIFIED**

P3A		INDIVIDUAL MODIFICATION																						
MODELS OF SYSTEM AFFECTED: <u>ALL ILARTS</u>		TYPE MODIFICATION: <u>RELIABILITY / MAINTAINABILITY</u>										MODIFICATION TITLE: <u>VLA - ILARTS CAMERA REPLACE</u>												
DESCRIPTION/JUSTIFICATION: Visual Landing Aides (VLA) Integrated Launch and Recovery Television System (ILARTS) Service Change 5 replaces the DAGE cameras with current video and micro-processor technology to improve system reliability and maintainability.																								
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: <u>NOT APPLICABLE</u>																								
	<u>FY 1994 & Prior</u>		<u>FY 1995</u>		<u>FY 1996</u>		<u>FY 1997</u>		<u>FY 1998</u>		<u>FY 1999</u>		<u>FY 2000</u>		<u>FY 2001</u>		<u>FY 2002</u>		<u>FY 2003</u>		<u>TC</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>\$</u>	<u>QTY</u>	<u>\$</u>	<u>QTY</u>	<u>\$</u>	<u>QTY</u>	<u>\$</u>	<u>QTY</u>	<u>\$</u>	<u>QTY</u>	<u>\$</u>	<u>QTY</u>	<u>\$</u>	<u>QTY</u>	<u>\$</u>	<u>QTY</u>	<u>\$</u>	<u>QTY</u>	<u>\$</u>	<u>QTY</u>	<u>\$</u>	<u>QTY</u>	<u>\$</u>
FINANCIAL PLAN (IN MILLIONS)																								
<u>RDT&E</u>																								
<u>PROCUREMENT</u>																								
INSTALLATION KITS (UNIT COST)																								
INSTALLATION KITS																								
INSTALLATION KITS NONRECURRING																								
EQUIPMENT																								
EQUIPMENT NONRECURRING																								
ENGINEERING CHANGE ORDERS																								
DATA																								
TRAINING EQUIPMENT																								
SUPPORT EQUIPMENT																								
OTHER - PE																								
OTHER - ILS																								
OTHER - ATE																								
INTERIM CONTRACTOR SUPPORT																								
INSTALL COST - Non-FMP																								
TOTAL PROCUREMENT																								

CLASSIFICATION: **UNCLASSIFIED**

P3A (Continued)

INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: ALL ILARTS

MODIFICATION TITLE: VLA - ILARTS CAMERA REPLACE

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: VRT INSTALLATION

ADMINISTRATIVE LEADTIME: 1 Months

PRODUCTION LEADTIME: 11 Months

CONTRACT DATES: FY 1997: N/A

FY 1998: N/A

FY 1999: N/A

DELIVERY DATE: FY 1997: N/A

FY 1998: N/A

FY 1999: N/A

(\$ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
INSTALLATION SUPPORT								0.015																0.015
PRIOR YEARS																								
FY 1995 EQUIPMENT							20	*															20	
FY 1996 EQUIPMENT																								
FY 1997 EQUIPMENT																								
FY 1998 EQUIPMENT																								
FY 1999 EQUIPMENT																								
FY 2000 EQUIPMENT																								
FY 2001 EQUIPMENT																								
FY 2002 EQUIPMENT																								
FY 2003 EQUIPMENT																								
TO COMPLETE																								
INSTALL COST - <u>Non-FMP</u>							20	0.015															20	0.015

INSTALLATION SCHEDULE:

		FY 1996 & Prior	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4						
In Out	20																											20				
			5	5	5	5																						20				

* Type Commander funded installation.

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CLASSIFICATION: **UNCLASSIFIED**

P3A		INDIVIDUAL MODIFICATION																							
MODELS OF SYSTEM AFFECTED: <u>ALL ILARTS</u>		TYPE MODIFICATION: <u>RELIABILITY / MAINTAINABILITY</u>										MODIFICATION TITLE: <u>VLA - ILARTS SWITCHER</u>													
DESCRIPTION/JUSTIFICATION: Visual Landing Aides (VLA) Integrated Launch and Recovery Television System (ILARTS) Service Change 6 replaces the video switcher assemblies with technology to improve system reliability and maintainability; and increase system mean time between failure (MTBF)																									
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: <u>NOT APPLICABLE</u>																									
	<u>FY 1994 & Prior</u>		<u>FY 1995</u>		<u>FY 1996</u>		<u>FY 1997</u>		<u>FY 1998</u>		<u>FY 1999</u>		<u>FY 2000</u>		<u>FY 2001</u>		<u>FY 2002</u>		<u>FY 2003</u>		<u>TC</u>		<u>TOTAL</u>		
	<u>QTY</u>	<u>\$</u>	<u>QTY</u>	<u>\$</u>	<u>QTY</u>	<u>\$</u>	<u>QTY</u>	<u>\$</u>	<u>QTY</u>	<u>\$</u>	<u>QTY</u>	<u>\$</u>	<u>QTY</u>	<u>\$</u>	<u>QTY</u>	<u>\$</u>	<u>QTY</u>	<u>\$</u>	<u>QTY</u>	<u>\$</u>	<u>QTY</u>	<u>\$</u>	<u>QTY</u>	<u>\$</u>	
FINANCIAL PLAN (IN MILLIONS)																									
<u>RDT&E</u>																									
<u>PROCUREMENT</u>																									
INSTALLATION KITS (UNIT COST)		0.019																						0.019	
INSTALLATION KITS		15	0.289																					15	0.289
INSTALLATION KITS NONRECURRING																									
EQUIPMENT																									
EQUIPMENT NONRECURRING																									
ENGINEERING CHANGE ORDERS																									
DATA																									
TRAINING EQUIPMENT																									
SUPPORT EQUIPMENT																									
OTHER - PE		0.040		0.020		0.020		0.065																0.145	
OTHER - ILS		0.020		0.015		0.015		0.035																0.085	
OTHER - ATE																									
INTERIM CONTRACTOR SUPPORT																									
INSTALL COST - Non-FMP								11	0.087	4	0.025												15	0.112	
TOTAL PROCUREMENT		15	0.349	0.035		0.035		0.187		0.025													15	0.631	

CLASSIFICATION: **UNCLASSIFIED**

P3A (Continued)

INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: ALL ILARTS

MODIFICATION TITLE: VLA - ILARTS SWITCHER

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: VRT INSTALLATION

ADMINISTRATIVE LEADTIME: 1 Months

PRODUCTION LEADTIME: 12 Months

CONTRACT DATES: FY 1997: N/A

FY 1998: N/A

FY 1999: N/A

DELIVERY DATE: FY 1997:

FY 1998: N/A

FY 1999: N/A

(\$ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
INSTALLATION SUPPORT								0.025																0.025
PRIOR YEARS							11	0.062	4	0.025													15	0.087
FY 1995 EQUIPMENT																								
FY 1996 EQUIPMENT																								
FY 1997 EQUIPMENT																								
FY 1998 EQUIPMENT																								
FY 1999 EQUIPMENT																								
FY 2000 EQUIPMENT																								
FY 2001 EQUIPMENT																								
FY 2002 EQUIPMENT																								
FY 2003 EQUIPMENT																								
TO COMPLETE																								
INSTALL COST - Non-FMP							11	0.087	4	0.025													15	0.112

INSTALLATION SCHEDULE:

		FY 1996 & Prior				FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4						
In Out	15																														15				
		3	5	3		2	1	1																							15				

P-3A

CLASSIFICATION: **UNCLASSIFIED**

P3A		INDIVIDUAL MODIFICATION																						
MODELS OF SYSTEM AFFECTED: <u>ALL ILARTS</u>		TYPE MODIFICATION: <u>RELIABILITY / MAINTAINABILITY</u>										MODIFICATION TITLE: <u>VLA - ILARTS DATA GENERATOR</u>												
DESCRIPTION/JUSTIFICATION:																								
Visual Landing Aides (VLA) Integrated Launch and Recovery Television System (ILARTS) Service Change 7 replace the video switcher assemblies with current video and micro-processor technology to improve system reliability and maintainability; and increase system mean time between failure (MTBF).																								
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: <u>NOT APPLICABLE</u>																								
	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																								
<u>RDT&E</u>																								
<u>PROCUREMENT</u>																								
INSTALLATION KITS (UNIT COST)				0.013																				0.013
INSTALLATION KITS			13	0.175																			13	0.175
INSTALLATION KITS NONRECURRING																								
EQUIPMENT																								
EQUIPMENT NONRECURRING																								
ENGINEERING CHANGE ORDERS																								
DATA																								
TRAINING EQUIPMENT																								
SUPPORT EQUIPMENT																								
OTHER - PE		0.030		0.020		0.020																		0.070
OTHER - ILS		0.020		0.010		0.010																		0.040
OTHER - ATE																								
INTERIM CONTRACTOR SUPPORT																								
INSTALL COST - Non-FMP							5	0.042	4	0.021	4	0.022											13	0.085
TOTAL PROCUREMENT		0.050	13	0.205		0.030		0.042		0.021		0.022											13	0.370

CLASSIFICATION: **UNCLASSIFIED**

P3A (Continued)

INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: ALL ILARTS

MODIFICATION TITLE: VLA - ILARTS DATA GENERATOR

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: VRT INSTALLATION

ADMINISTRATIVE LEADTIME: 1 Months

PRODUCTION LEADTIME: 12 Months

CONTRACT DATES: FY 1997: N/A

FY 1998: N/A

FY 1999: N/A

DELIVERY DATE: FY 1997: N/A

FY 1998: N/A

FY 1999: N/A

(\$ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
INSTALLATION SUPPORT								0.015																0.015
PRIOR YEARS																								
FY 1995 EQUIPMENT							5	0.027	4	0.021	4	0.022											13	0.070
FY 1996 EQUIPMENT																								
FY 1997 EQUIPMENT																								
FY 1998 EQUIPMENT																								
FY 1999 EQUIPMENT																								
FY 2000 EQUIPMENT																								
FY 2001 EQUIPMENT																								
FY 2002 EQUIPMENT																								
FY 2003 EQUIPMENT																								
TO COMPLETE																								
INSTALL COST - Non-FMP							5	0.042	4	0.021	4	0.022											13	0.085

INSTALLATION SCHEDULE:

	FY 1996 & Prior	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003	TC	TOTAL
In		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4			13
Out		2	3	3	3	2																						13
				5		4				4																		

* Installations commence in FY97 due to aircraft carrier availability schedules.

P-3A

CLASSIFICATION: **UNCLASSIFIED**

P3A		INDIVIDUAL MODIFICATION																							
MODELS OF SYSTEM AFFECTED: <u>LSO HUD MK-1 MOD 0</u>		TYPE MODIFICATION: <u>RELIABILITY / MAINTAINABILITY</u>										MODIFICATION TITLE: <u>VLA - LSO HUD SPEAKERS</u>													
DESCRIPTION/JUSTIFICATION: Visual Landing Aides (VLA) Landing Signals Officer Heads Up Display (HUD) Service Change 1 improves the reliability and maintainability by upgrading the LSO HUD Workstation OJ-314/FSC speakers																									
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: <u>NOT APPLICABLE</u>																									
	<u>FY 1994 & Prior</u>		<u>FY 1995</u>		<u>FY 1996</u>		<u>FY 1997</u>		<u>FY 1998</u>		<u>FY 1999</u>		<u>FY 2000</u>		<u>FY 2001</u>		<u>FY 2002</u>		<u>FY 2003</u>		<u>TC</u>		<u>TOTAL</u>		
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	
FINANCIAL PLAN (IN MILLIONS)																									
<i><u>RDT&E</u></i>																									
<i><u>PROCUREMENT</u></i>																									
INSTALLATION KITS (UNIT COST)																									
			13	0.016																					0.016
INSTALLATION KITS																									
			13	0.210																			13	0.210	
INSTALLATION KITS NONRECURRING																									
EQUIPMENT																									
EQUIPMENT NONRECURRING																									
ENGINEERING CHANGE ORDERS																									
DATA																									
TRAINING EQUIPMENT																									
SUPPORT EQUIPMENT																									
OTHER - PE																									
		0.020		0.020																					0.040
OTHER - ILS																									
		0.010		0.010																					0.020
OTHER - ATE																									
INTERIM CONTRACTOR SUPPORT																									
INSTALL COST - Non-FMP																									
							11	0.211	1	0.027	1	0.028											13	0.266	
TOTAL PROCUREMENT																									
		0.030	13	0.240				0.211		0.027		0.028											13	0.536	

CLASSIFICATION: **UNCLASSIFIED**

P3A (Continued)

INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: LSO HUD MK-1 MOD 0 MODIFICATION TITLE: VLA - LSO HUD SPEAKERS

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: SHIPYARD / VRT

ADMINISTRATIVE LEADTIME: 1 Months

PRODUCTION LEADTIME: 2 Months

CONTRACT DATES: FY 1997: N/A

FY 1998: N/A

FY 1999: N/A

DELIVERY DATE: FY 1997: Jan-97

FY 1998: N/A

FY 1999: N/A

(\$ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
INSTALLATION SUPPORT								0.035		0.010		0.010												0.055
PRIOR YEARS																								
FY 1995 EQUIPMENT							11	0.176	1	0.017	1	0.018											13	0.211
FY 1996 EQUIPMENT																								
FY 1997 EQUIPMENT																								
FY 1998 EQUIPMENT																								
FY 1999 EQUIPMENT																								
FY 2000 EQUIPMENT																								
FY 2001 EQUIPMENT																								
FY 2002 EQUIPMENT																								
FY 2003 EQUIPMENT																								
TO COMPLETE																								
INSTALL COST - Non-FMP							11	0.211	1	0.027	1	0.028											13	0.266

INSTALLATION SCHEDULE:

	FY 1996 & Prior	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
In	13	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		13
Out			3	4	4		1			1																					13

P-3A

CLASSIFICATION: **UNCLASSIFIED**

P3A INDIVIDUAL MODIFICATION																								
MODELS OF SYSTEM AFFECTED: <u>CV(N) FLOLS MK-6</u>				TYPE MODIFICATION: <u>IMPROVED CAPABILITIES</u>								MODIFICATION TITLE: <u>VLA - FLOLS S/Cs 129</u>												
DESCRIPTION/JUSTIFICATION: Visual Landing Aides (VLA) Fresnel Lens Optical Landing System (FLOLS) Service Change 129 connects the AN/SPN-46 radar gyro to the FLOLS system allowing the operator to select and display the selected gyro source.																								
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: <u>NOT APPLICABLE</u>																								
	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																								
<u>RDT&E</u>																								
<u>PROCUREMENT</u>																								
INSTALLATION KITS (UNIT COST)				0.023																				0.023
INSTALLATION KITS			17	0.391																			17	0.391
INSTALLATION KITS NONRECURRING																								
EQUIPMENT																								
EQUIPMENT NONRECURRING																								
ENGINEERING CHANGE ORDERS																								
DATA																								
TRAINING EQUIPMENT																								
SUPPORT EQUIPMENT																								
OTHER - PE		0.077		0.070		0.030																		0.177
OTHER - ILS		0.012		0.015		0.005																		0.032
OTHER - ATE																								
INTERIM CONTRACTOR SUPPORT																								
INSTALL COST - Non-FMP							4	0.040	9	0.020	3	0.020					1	0.005					17	0.085
TOTAL PROCUREMENT		0.089	17	0.476		0.035		0.040		0.020		0.020					0.005						17	0.685

CLASSIFICATION: **UNCLASSIFIED**

P3A (Continued) INDIVIDUAL MODIFICATION (Continued)																								
MODELS OF SYSTEMS AFFECTED: <u>CV(N) FLOLS MK-6</u>											MODIFICATION TITLE: <u>VLA - FLOLS S/Cs 129</u>													
INSTALLATION INFORMATION: METHOD OF IMPLEMENTATION: <u>SHIPYARD - SHIP ALTERATION</u> ADMINISTRATIVE LEADTIME: <u>9 Months</u> PRODUCTION LEADTIME: <u>12 Months</u> CONTRACT DATES: FY 1997: <u>N/A</u> FY 1998: <u>N/A</u> FY 1999: <u>N/A</u> DELIVERY DATE: FY 1997: <u>N/A</u> FY 1998: <u>N/A</u> FY 1999: <u>N/A</u>																								
(\$ in Millions)																								
Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
INSTALLATION SUPPORT								0.040		0.020		0.020						0.005						0.085
PRIOR YEARS																								
FY 1995 EQUIPMENT							4	*	9	*	3	*					1	*					17	*
FY 1996 EQUIPMENT																								
FY 1997 EQUIPMENT																								
FY 1998 EQUIPMENT																								
FY 1999 EQUIPMENT																								
FY 2000 EQUIPMENT																								
FY 2001 EQUIPMENT																								
FY 2002 EQUIPMENT																								
FY 2003 EQUIPMENT																								
TO COMPLETE																								
INSTALL COST - Non-FMP							4	0.040	9	0.020	3	0.020					1	0.005					17	0.085

INSTALLATION SCHEDULE:

	FY 1996 & Prior	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4						
In	17																										17				
Out		3	1			2	3	2	2	1	1	1										1					17				

* Type Commander funded installation.

CLASSIFICATION: **UNCLASSIFIED**

P3A		INDIVIDUAL MODIFICATION																							
MODELS OF SYSTEM AFFECTED: <u>CV(N) FLOLS MK-6</u>		TYPE MODIFICATION: <u>IMPROVED CAPABILITIES</u>										MODIFICATION TITLE: <u>VLA - FLOLS S/C 130</u>													
DESCRIPTION/JUSTIFICATION:																									
Visual Landing Aids (VLA) Fresnel Lens Optical Landing System (FLOLS) Service Change 130 - Daylight Readable Indicator changes the display to reduce glare and increase readability in daylight conditions.																									
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: <u>NOT APPLICABLE</u>																									
	<u>FY 1994 & Prior</u>		<u>FY 1995</u>		<u>FY 1996</u>		<u>FY 1997</u>		<u>FY 1998</u>		<u>FY 1999</u>		<u>FY 2000</u>		<u>FY 2001</u>		<u>FY 2002</u>		<u>FY 2003</u>		<u>TC</u>		<u>TOTAL</u>		
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	
FINANCIAL PLAN (IN MILLIONS)																									
<i>RD&E</i>																									
<i>PROCUREMENT</i>																									
INSTALLATION KITS (UNIT COST)																									
				0.005																					0.005
INSTALLATION KITS																									
			17	0.089																				17	0.089
INSTALLATION KITS NONRECURRING																									
EQUIPMENT																									
EQUIPMENT NONRECURRING																									
ENGINEERING CHANGE ORDERS																									
DATA																									
TRAINING EQUIPMENT																									
SUPPORT EQUIPMENT																									
OTHER - PE																									
		0.030		0.040		0.025																			0.095
OTHER - ILS																									
		0.006		0.009		0.005																			0.020
OTHER - ATE																									
INTERIM CONTRACTOR SUPPORT																									
INSTALL COST - Non-FMP																									
					1	*	6	0.047	4	0.040	5	0.049					1	0.010						17	0.146
TOTAL PROCUREMENT																									
		0.036	17	0.138		0.030		0.047		0.040		0.049						0.010						17	0.350

* Type Commander funded installation.

CLASSIFICATION: **UNCLASSIFIED**

INDIVIDUAL MODIFICATION (Continued)																								
P3A (Continued)																								
MODELS OF SYSTEMS AFFECTED: <u>CV(N) FLOLS MK-6</u>											MODIFICATION TITLE: <u>VLA - FLOLS S/C 130</u>													
INSTALLATION INFORMATION: METHOD OF IMPLEMENTATION: <u>SHIPYARD - SHIP ALTERATION</u> ADMINISTRATIVE LEADTIME: <u>9 Months</u> PRODUCTION LEADTIME: <u>12 Months</u> CONTRACT DATES: FY 1997: <u>N/A</u> FY 1998: <u>N/A</u> FY 1999: <u>N/A</u> DELIVERY DATE: FY 1997: <u>N/A</u> FY 1998: <u>N/A</u> FY 1999: <u>N/A</u>																								
(\$ in Millions)																								
Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
INSTALLATION SUPPORT								0.047		0.040		0.049						0.010						0.146
PRIOR YEARS																								
FY 1995 EQUIPMENT					1	*	6	*	4	*	5	*					1	*					17	*
FY 1996 EQUIPMENT																								
FY 1997 EQUIPMENT																								
FY 1998 EQUIPMENT																								
FY 1999 EQUIPMENT																								
FY 2000 EQUIPMENT																								
FY 2001 EQUIPMENT																								
FY 2002 EQUIPMENT																								
FY 2003 EQUIPMENT																								
TO COMPLETE																								
INSTALL COST - Non-FMP					1	*	6	0.047	4	0.040	5	0.049					1	0.010					17	0.146

		FY 1996				FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4						
In	17																														17				
Out	1	1	2	1	2	1	1	1	1	1	2	1	1									1									17				

* Type Commander funded installation.

CLASSIFICATION: **UNCLASSIFIED**

P3A																								
INDIVIDUAL MODIFICATION																								
MODELS OF SYSTEM AFFECTED: <u>VISUAL LANDING AIDS (VLA)</u>				TYPE MODIFICATION: <u>IMPROVED CAPABILITIES</u>				MODIFICATION TITLE: <u>VLA - MISC S/Cs</u>																
DESCRIPTION/JUSTIFICATION:																								
This exhibit includes various Visual Landing Aids (VLA) Service Changes procured or installed with prior year funding, of limited dollar value, and future year procurements. Included are the A207 Power Supply Drawer; Heads U Display (HUD) Electromagnetic Interference (EMI) Hardening; HUD Work Station Changes; Head Wind /Cross Wind Indicator; Landing Signals Officer (LSO) HUD Aircraft Launch System (ACLS) Status Indicator; LSO HUD ILACSS AN/SPN-46 radar interface, AN/SPN-46 Precision Approach Landing System (PALS) Indicator Interface, Wave Off Indicator; and T-45 aircraft Upgrade to the Fresnel Lens Optical Landing System (FLOLS)/HUD.																								
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: <u>NOT APPLICABLE</u>																								
	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																								
<u>RDT&E</u>																								
<u>PROCUREMENT</u>																								
INSTALLATION KITS (UNIT COST)				0.030		0.025				0.032					0.031		0.030		0.030					0.030
INSTALLATION KITS			58	1.761	24	0.609			8	0.255					49	1.500	66	2.000	139	4.196			344	10.321
INSTALLATION KITS NONRECURRING																								
EQUIPMENT																								
EQUIPMENT NONRECURRING																								
ENGINEERING CHANGE ORDERS																								
DATA																								
TRAINING EQUIPMENT																								
SUPPORT EQUIPMENT																								
OTHER - PE				0.745		0.112		0.097		0.005		0.020		0.020		0.150		0.148		0.300				1.597
OTHER - ILS				0.126		0.038		0.015		0.063		0.020		0.015		0.100		0.100		0.232				0.709
OTHER - ATE															0.050		0.065		0.100					0.215
INTERIM CONTRACTOR SUPPORT																								
INSTALL COST - Non-FMP	*	2.258	*	1.460	*	1.100	58	0.910	24	0.241			5	0.055	8	0.267	35	1.148	73	1.816	141	2.465	344	11.720
TOTAL PROCUREMENT		2.258	58	4.092	24	1.859		1.022	8	0.564		0.040		0.090	49	2.067	66	3.461	139	6.644		2.465	344	24.562

* Various.

CLASSIFICATION: **UNCLASSIFIED**

P3A (Continued)

INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: VISUAL LANDING AIDS (VLA) MODIFICATION TITLE: VLA - MISC S/Cs

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: VRT, DEPOT, AND SHIPYARD

ADMINISTRATIVE LEADTIME: N/A Months

PRODUCTION LEADTIME: N/A Months

CONTRACT DATES: FY 1997: N/A FY 1998: N/A FY 1999: N/A

DELIVERY DATE: FY 1997: N/A FY 1998: N/A FY 1999: N/A

(\$ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
INSTALLATION SUPPORT								0.350		0.042				0.007		0.057		0.050		0.050		0.010		0.566
PRIOR YEARS	*	2.258	*	1.460	*	1.100																		4.818
FY 1995 EQUIPMENT							58	0.560															58	0.560
FY 1996 EQUIPMENT									24	0.199													24	0.199
FY 1997 EQUIPMENT																								
FY 1998 EQUIPMENT													5	0.048	3	0.027							8	0.075
FY 1999 EQUIPMENT																								
FY 2000 EQUIPMENT																								
FY 2001 EQUIPMENT															5	0.183	20	0.690	16	0.566	8	0.271	49	1.710
FY 2002 EQUIPMENT																	15	0.408	30	0.816	21	0.584	66	1.808
FY 2003 EQUIPMENT																			27	0.384	112	1.600	139	1.984
TO COMPLETE																								
INSTALL COST - Non-FMP	*	2.258	*	1.460	*	1.100	58	0.910	24	0.241			5	0.055	8	0.267	35	1.148	73	1.816	141	2.465	344	11.720

INSTALLATION SCHEDULE:

		FY 1996	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC		
		& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		TOTAL	
In		56 *	2	6	6	6	6								5				3	9	15	17	15	15	15	17	22	23	23	83	344		
Out			14	15	14	15	5	6	7	6					5				4	4		8	9	9	9	14	18	23	18	141	344		

* Various.

P-3A

CLASSIFICATION: **UNCLASSIFIED**

INDIVIDUAL MODIFICATION																																	
MODELS OF SYSTEM AFFECTED:		VARIOUS										TYPE MODIFICATION:		VARIOUS										MODIFICATION TITLE:		RECOVERY S/C SUMMARY							
DESCRIPTION/JUSTIFICATION: Summary page of all Recovery Service Changes																																	
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: <u>NOT APPLICABLE</u>																																	
	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL										
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$									
FINANCIAL PLAN (IN MILLIONS)																																	
RDT&E																																	
PROCUREMENT																																	
INSTALLATION KITS (UNIT COST)			0.018		0.063		0.009		0.005		0.014		0.017		0.015		0.038		0.113		0.105												
INSTALLATION KITS		8	0.144	21	1.331	42	0.368	290	1.536	167	2.394	131	2.169	121	1.838	78	2.938	20	2.252	60	6.300			CONTINUING									
INSTALLATION KITS NONRECURRING																																	
EQUIPMENT																																	
EQUIPMENT NONRECURRING																																	
ENGINEERING CHANGE ORDERS																																	
DATA																																	
TRAINING EQUIPMENT																																	
SUPPORT EQUIPMENT																																	
OTHER - PE			0.095		0.275		0.745		0.952		0.677		0.343		0.220		0.258		0.167		0.330			CONTINUING									
OTHER - ILS			0.011		0.104		0.137		0.179		0.556		0.224		0.050		0.100		0.100		0.150			CONTINUING									
OTHER - ATE											0.015		0.030		0.015		0.050		0.060		0.075			CONTINUING									
INTERIM CONTRACTOR SUPPORT																																	
INSTALL COST		**	10.538	**	7.229	1	1.939	58	1.481	120	0.952	264	2.060	180	1.320	136	1.043	101	2.530	53	3.100	25	1.340	CONTINUING									
TOTAL PROCUREMENT		8	10.788	21	8.939	42	3.189	290	4.148	167	4.594	131	4.826	121	3.443	78	4.389	20	5.109	60	9.955		1.340	CONTINUING									

** Various

CLASSIFICATION: **UNCLASSIFIED**

P3A (Continued)

INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: VARIOUS

MODIFICATION TITLE: RECOVERY S/C SUMMARY

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: VARIOUS

ADMINISTRATIVE LEADTIME: 3 Months

PRODUCTION LEADTIME: 5 Months

CONTRACT DATES: FY 1997: VARIOUS

FY 1998: VARIOUS

FY 1999: VARIOUS

DELIVERY DATE: FY 1997: _____

FY 1998: VARIOUS

FY 1999: VARIOUS

(\$ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
INSTALLATION SUPPORT								0.203		0.149		0.532		0.164		0.128		0.105		0.100			Continuing	Continuing
PRIOR YEARS	**	10.538	**	7.229			8	0.354															Continuing	Continuing
FY 1995 EQUIPMENT					1	1.939	12	0.724	8	0.272													Continuing	Continuing
FY 1996 EQUIPMENT							18	0.180	20	0.210	4	0.020											Continuing	Continuing
FY 1997 EQUIPMENT							20	0.020	88	0.211	162	0.336	20	0.025									Continuing	Continuing
FY 1998 EQUIPMENT									4	0.110	98	1.172	48	0.274	17	0.064							Continuing	Continuing
FY 1999 EQUIPMENT													112	0.857	19	0.026							Continuing	Continuing
FY 2000 EQUIPMENT															99	0.725	22	*					Continuing	Continuing
FY 2001 EQUIPMENT															1	0.100	71	1.997	6	0.500			Continuing	Continuing
FY 2002 EQUIPMENT																	8	0.428	12	0.675			Continuing	Continuing
FY 2003 EQUIPMENT																			35	1.825			Continuing	Continuing
TO COMPLETE	**																						Continuing	Continuing
INSTALL COST	**	10.538	**	7.229	1	1.939	58	1.481	120	0.952	264	2.060	180	1.320	136	1.043	101	2.530	53	3.100			Continuing	Continuing

INSTALLATION SCHEDULE:

	FY 1996 & Prior	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
In	31 *	12	13	36	46	57	59	55	34	38	42	56	45	39	40	40	35	29	30	30	30	20	21	17	15	15	16	17	18	2	938
Out	1	3	11	11	33	22	34	27	37	49	64	73	78	36	48	48	48	31	37	36	32	26	28	24	23	13	13	13	14	25	938

* Type Commander funded installation.

** Various

P-3A

CLASSIFICATION: **UNCLASSIFIED**

P3A																								
INDIVIDUAL MODIFICATION																								
MODELS OF SYSTEM AFFECTED: <u>ALL RAST SYSTEMS</u>						TYPE MODIFICATION: <u>RELIABILITY / MAINTAINABILITY</u>						MODIFICATION TITLE: <u>RECOVERY - RAST PMV (ACS)</u>												
DESCRIPTION/JUSTIFICATION:																								
This Service Change provides for the upgrade and replacement of various obsolescent components of the Recovery, Assist, Securing and Traversing (RAST) system installed aboard various Air Capable Ships (ACS) to assist in the handling of LAMPS MK III helicopters.																								
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: <u>NOT APPLICABLE</u>																								
	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																								
<u>RD&E</u>																								
<u>PROCUREMENT</u>																								
INSTALLATION KITS (UNIT COST)												0.029		0.029		0.029								0.029
INSTALLATION KITS											37	1.073	37	1.073	37	1.073							111	3.219
INSTALLATION KITS NONRECURRING																								
EQUIPMENT																								
EQUIPMENT NONRECURRING																								
ENGINEERING CHANGE ORDERS																								
DATA																								
TRAINING EQUIPMENT																								
SUPPORT EQUIPMENT																								
OTHER - PE								0.075		0.149		0.100		0.031		0.031		0.019						0.405
OTHER - ILS								0.015		0.020		0.050		0.020										0.105
OTHER - ATE																								
INTERIM CONTRACTOR SUPPORT																								
INSTALL COST - Non-FMP												37	0.293	37	0.292	37	0.289						111	0.874
TOTAL PROCUREMENT								0.090		0.169	37	1.223	37	1.417	37	1.396		0.308					111	4.603

CLASSIFICATION: **UNCLASSIFIED**

P3A (Continued)

INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: ALL RAST SYSTEMS MODIFICATION TITLE: RECOVERY - RAST PMV (ACS)

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: VOYAGE REPAIR TEAM

ADMINISTRATIVE LEADTIME: 3 Months

PRODUCTION LEADTIME: 9 Months

CONTRACT DATES: FY 1997: N/A

FY 1998: N/A FY 1999: 12/15/98

DELIVERY DATE: FY 1997: N/A

FY 1998: N/A FY 1999: 9/15/99

(\$ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
INSTALLATION SUPPORT													0.018		0.017		0.014							0.049
PRIOR YEARS																								
FY 1995 EQUIPMENT																								
FY 1996 EQUIPMENT																								
FY 1997 EQUIPMENT																								
FY 1998 EQUIPMENT																								
FY 1999 EQUIPMENT													37	0.275									37	0.275
FY 2000 EQUIPMENT															37	0.275							37	0.275
FY 2001 EQUIPMENT																	37	0.275					37	0.275
FY 2002 EQUIPMENT																								
FY 2003 EQUIPMENT																								
TO COMPLETE																								
INSTALL COST - Non-FMP													37	0.293	37	0.292	37	0.289					111	0.874

INSTALLATION SCHEDULE:

	FY 1996 & Prior	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003	TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4			
In														10	10	10	10	10	10	10	10	10	10	10	10			111
Out													7	7	10	10	10	7	10	10	10							111

P-3A

CLASSIFICATION: **UNCLASSIFIED**

P3A		INDIVIDUAL MODIFICATION																						
MODELS OF SYSTEM AFFECTED: <u>ALL INSTALLED RAST SYSTEMS</u>		TYPE MODIFICATION: <u>RELIABILITY / MAINTAINABILITY</u>										MODIFICATION TITLE: <u>REC - RAST MACHINE ROOM</u>												
DESCRIPTION/JUSTIFICATION: This Service Change corrects various discrepancies identified by Fleet users and results in reduced shipboard maintenance man-hours for the Recovery, Assist, Securing and Traversing (RAST) system installed aboard various Air Capable Ships (ACS) to assist in the handling of LAMPS MK III helicopters																								
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: <u>NOT APPLICABLE</u>																								
	<u>FY 1994 & Prior</u>		<u>FY 1995</u>		<u>FY 1996</u>		<u>FY 1997</u>		<u>FY 1998</u>		<u>FY 1999</u>		<u>FY 2000</u>		<u>FY 2001</u>		<u>FY 2002</u>		<u>FY 2003</u>		<u>TC</u>		<u>TOTAL</u>	
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																								
<i><u>RDT&E</u></i>																								
<i><u>PROCUREMENT</u></i>																								
INSTALLATION KITS (UNIT COST)																								
INSTALLATION KITS																								
INSTALLATION KITS NONRECURRING																								
EQUIPMENT																								
EQUIPMENT NONRECURRING																								
ENGINEERING CHANGE ORDERS																								
DATA																								
TRAINING EQUIPMENT																								
SUPPORT EQUIPMENT																								
OTHER - PE																								
OTHER - ILS																								
OTHER - ATE																								
INTERIM CONTRACTOR SUPPORT																								
INSTALL COST - Non-FMP																								
TOTAL PROCUREMENT																								

P3A-1 REC RAST MACH

CLASSIFICATION: **UNCLASSIFIED**

INDIVIDUAL MODIFICATION (Continued)																															
P3A (Continued)																															
MODELS OF SYSTEMS AFFECTED: <u>ALL INSTALLED RAST SYSTEMS</u>											MODIFICATION TITLE: <u>REC - RAST MACHINE ROOM</u>																				
INSTALLATION INFORMATION:																															
METHOD OF IMPLEMENTATION: <u>VRT INSTALLATION</u>																															
ADMINISTRATIVE LEADTIME: <u>3 Months</u>											PRODUCTION LEADTIME: <u>12 Months</u>																				
CONTRACT DATES: FY 1997: <u>N/A</u>											FY 1998: <u>12/31/97</u>					FY 1999: <u>12/31/99</u>															
DELIVERY DATE: FY 1997: <u>N/A</u>											FY 1998: <u>12/31/98</u>					FY 1999: <u>12/31/00</u>															
(\$ in Millions)																															
Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total								
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$							
INSTALLATION SUPPORT												0.027		0.027		0.027		0.027						0.108							
PRIOR YEARS																															
FY 1995 EQUIPMENT																															
FY 1996 EQUIPMENT																															
FY 1997 EQUIPMENT																															
FY 1998 EQUIPMENT											27	0.450											27	0.450							
FY 1999 EQUIPMENT													27	0.450									27	0.450							
FY 2000 EQUIPMENT															27	0.450							27	0.450							
FY 2001 EQUIPMENT																	27	0.450					27	0.450							
FY 2002 EQUIPMENT																															
FY 2003 EQUIPMENT																															
TO COMPLETE																															
INSTALL COST - Non-FMP											27	0.477	27	0.477	27	0.477	27	0.477					108	1.908							
INSTALLATION SCHEDULE:																															
	FY 1996 & Prior	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		TOTAL
In										6	7	7	7	6	7	7	7	6	7	7	7	6	7	7	7				108		
Out										5	6	8	8	5	6	8	8	5	6	8	8	5	6	8	8				108		

P-3A

CLASSIFICATION: **UNCLASSIFIED**

P3A		INDIVIDUAL MODIFICATION																							
MODELS OF SYSTEM AFFECTED: <u>MK7 ARRESTING GEAR</u>		TYPE MODIFICATION: <u>RELIABILITY / MAINTAINABILITY</u>										MODIFICATION TITLE: <u>REC-RETRACTABLE SHEAVE MOD</u>													
DESCRIPTION/JUSTIFICATION: <div style="border: 1px solid black; padding: 5px; min-height: 50px;"> Recovery Service Change to the Retractable Sheave Trunnion is a redesign to use a smooth-bore trunnion. The smooth-bore trunnion simplifies manufacturing, and reduces assembly and installation costs. </div>																									
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: <u>NOT APPLICABLE</u>																									
	<u>FY 1994 & Prior</u>		<u>FY 1995</u>		<u>FY 1996</u>		<u>FY 1997</u>		<u>FY 1998</u>		<u>FY 1999</u>		<u>FY 2000</u>		<u>FY 2001</u>		<u>FY 2002</u>		<u>FY 2003</u>		<u>TC</u>		<u>TOTAL</u>		
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	
FINANCIAL PLAN (IN MILLIONS)																									
<i><u>RDT&E</u></i>																									
<i><u>PROCUREMENT</u></i>																									
INSTALLATION KITS (UNIT COST)																									
						0.012		0.016		0.027		0.034													0.018
INSTALLATION KITS																									
				30	0.350	40	0.648	10	0.268	10	0.336													90	1.602
INSTALLATION KITS NONRECURRING																									
EQUIPMENT																									
EQUIPMENT NONRECURRING																									
ENGINEERING CHANGE ORDERS																									
DATA																									
TRAINING EQUIPMENT																									
SUPPORT EQUIPMENT																									
OTHER - PE																									
					0.050		0.040		0.040		0.020		0.010												0.160
OTHER - ILS																									
					0.010		0.020		0.020		0.007		0.007												0.064
OTHER - ATE																									
INTERIM CONTRACTOR SUPPORT																									
INSTALL COST - Non-FMP																									
						15	0.193	31	0.396	24	0.332	18	0.378	2	0.046									90	1.345
TOTAL PROCUREMENT																									
					30	0.410	40	0.901	10	0.724	10	0.695		0.395		0.046								90	3.171

CLASSIFICATION: **UNCLASSIFIED**

INDIVIDUAL MODIFICATION (Continued)																									
P3A (Continued)																									
MODELS OF SYSTEMS AFFECTED: <u>MK7 ARRESTING GEAR</u>										MODIFICATION TITLE: <u>REC-RETRACTABLE SHEAVE MOD</u>															
INSTALLATION INFORMATION:																									
METHOD OF IMPLEMENTATION: <u>DEPOT</u>																									
ADMINISTRATIVE LEADTIME: <u>1 Months</u>										PRODUCTION LEADTIME: <u>8 Months</u>															
CONTRACT DATES: FY 1997: <u>10/30/96</u>										FY 1998: <u>10/30/97</u>					FY 1999: <u>10/30/98</u>										
DELIVERY DATE: FY 1997: <u>6/30/97</u>										FY 1998: <u>6/30/98</u>					FY 1999: <u>6/30/99</u>										
(\$ in Millions)																									
Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
INSTALLATION SUPPORT								0.025		0.020		0.020		0.080		0.020									0.165
PRIOR YEARS																									
FY 1995 EQUIPMENT																									
FY 1996 EQUIPMENT							15	0.168	15	0.188														30	0.356
FY 1997 EQUIPMENT									16	0.188	24	0.312												40	0.500
FY 1998 EQUIPMENT													10	0.166										10	0.166
FY 1999 EQUIPMENT													8	0.132	2	0.026								10	0.158
FY 2000 EQUIPMENT																									
FY 2001 EQUIPMENT																									
FY 2002 EQUIPMENT																									
FY 2003 EQUIPMENT																									
TO COMPLETE																									
INSTALL COST - Non-FMP							15	0.193	31	0.396	24	0.332	18	0.378	2	0.046								90	1.345

		FY 1996 & Prior				FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4						
In		10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	90				
Out			5	5	5	5	6	10	10	3	7	7	7	1	7	5	5														90				

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CLASSIFICATION: **UNCLASSIFIED**

P3A		INDIVIDUAL MODIFICATION																							
MODELS OF SYSTEM AFFECTED: <u> MK7 MOD 3 ARRESTING GEAR </u>		TYPE MODIFICATION: <u> PERFORMANCE / CAPABILITY </u>										MODIFICATION TITLE: <u> REC - MK7 MOD-3 PLUS ADCAP </u>													
DESCRIPTION/JUSTIFICATION: <div style="border: 1px solid black; padding: 5px; min-height: 40px;"> This Service Change improves the performance and load bearing capabilities of the MK7 Arresting Gear bearings, purchase cables, and cross deck pendants to support the higher stress loads imposed by F/A-18E/F aircraft. This advanced capability arresting gear will also extend component service life. </div>																									
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: <u> NOT APPLICABLE </u>																									
	<u>FY 1994 & Prior</u>		<u>FY 1995</u>		<u>FY 1996</u>		<u>FY 1997</u>		<u>FY 1998</u>		<u>FY 1999</u>		<u>FY 2000</u>		<u>FY 2001</u>		<u>FY 2002</u>		<u>FY 2003</u>		<u>TC</u>		<u>TOTAL</u>		
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	
FINANCIAL PLAN (IN MILLIONS)																									
<i><u>RDT&E</u></i>																									
<i><u>PROCUREMENT</u></i>																									
INSTALLATION KITS (UNIT COST)																									
										0.199															0.199
INSTALLATION KITS																									
									4	0.796														4	0.796
INSTALLATION KITS NONRECURRING																									
EQUIPMENT																									
EQUIPMENT NONRECURRING																									
ENGINEERING CHANGE ORDERS																									
DATA																									
TRAINING EQUIPMENT																									
SUPPORT EQUIPMENT																									
OTHER - PE																									
										0.180		0.100		0.080											0.360
OTHER - ILS																									
										0.050		0.030		0.020											0.100
OTHER - ATE																									
										0.015		0.030		0.015											0.060
INTERIM CONTRACTOR SUPPORT																									
INSTALL COST - Non-FMP																									
											4	0.958												4	0.958
TOTAL PROCUREMENT																									
									4	1.041		1.118		0.115										4	2.274

CLASSIFICATION: **UNCLASSIFIED**

P3A (Continued)

INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: MK7 MOD 3 ARRESTING GEAR MODIFICATION TITLE: REC - MK7 MOD-3 PLUS ADCAP

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: VOYAGE REPAIR TEAM (VRT)

ADMINISTRATIVE LEADTIME: 3 Months

PRODUCTION LEADTIME: 13 Months

CONTRACT DATES: FY 1997: N/A

FY 1998: Dec-97

FY 1999: N/A

DELIVERY DATE: FY 1997: N/A

FY 1998: Jan-99

FY 1999: N/A

(\$ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
INSTALLATION SUPPORT												0.396												0.396
PRIOR YEARS																								
FY 1995 EQUIPMENT																								
FY 1996 EQUIPMENT																								
FY 1997 EQUIPMENT																								
FY 1998 EQUIPMENT											4	0.562											4	0.562
FY 1999 EQUIPMENT																								
FY 2000 EQUIPMENT																								
FY 2001 EQUIPMENT																								
FY 2002 EQUIPMENT																								
FY 2003 EQUIPMENT																								
TO COMPLETE																								
INSTALL COST - <u>Non-FMP</u>											4	0.958											4	0.958

INSTALLATION SCHEDULE:

In Out	FY 1996 & Prior	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4						
										1	2		1														4	4			

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CLASSIFICATION: **UNCLASSIFIED**

P3A		INDIVIDUAL MODIFICATION																						
MODELS OF SYSTEM AFFECTED: <u>CV(N) ARRESTING GEAR</u>		TYPE MODIFICATION: <u>RELIABILITY / MAINTAINABILITY</u>										MODIFICATION TITLE: <u>REC - FLUID RECLAMATION SYS</u>												
DESCRIPTION/JUSTIFICATION:																								
Recovery Service Change 418 to the Fluid Reclamation System filters out contaminants so that fluid may be reintroduced into the arresting gear system.																								
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: <u>NOT APPLICABLE</u>																								
	<u>FY 1994 & Prior</u>		<u>FY 1995</u>		<u>FY 1996</u>		<u>FY 1997</u>		<u>FY 1998</u>		<u>FY 1999</u>		<u>FY 2000</u>		<u>FY 2001</u>		<u>FY 2002</u>		<u>FY 2003</u>		<u>TC</u>		<u>TOTAL</u>	
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																								
<i><u>RDT&E</u></i>																								
<i><u>PROCUREMENT</u></i>																								
INSTALLATION KITS (UNIT COST)																								
INSTALLATION KITS																								
INSTALLATION KITS NONRECURRING																								
EQUIPMENT																								
EQUIPMENT NONRECURRING																								
ENGINEERING CHANGE ORDERS																								
DATA																								
TRAINING EQUIPMENT																								
SUPPORT EQUIPMENT																								
OTHER - PE																								
OTHER - ILS																								
OTHER - ATE																								
INTERIM CONTRACTOR SUPPORT																								
INSTALL COST - Non-FMP																								
TOTAL PROCUREMENT																								

CLASSIFICATION: **UNCLASSIFIED**

P3A (Continued)

INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: (CV(N) ARRESTING GEAR

MODIFICATION TITLE: REC - FLUID RECLAMATION SYS

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: "O" LEVEL MAINTENANCE

ADMINISTRATIVE LEADTIME: 3 Months

PRODUCTION LEADTIME: 12 Months

CONTRACT DATES: FY 1997: Jan-96

FY 1998: N/A

FY 1999: N/A

DELIVERY DATE: FY 1997: Jan-97

FY 1998: N/A

FY 1999: N/A

(\$ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
INSTALLATION SUPPORT																								
PRIOR YEARS																								
FY 1995 EQUIPMENT																								
FY 1996 EQUIPMENT							3	0.012	5	0.022	4	0.020											12	0.054
FY 1997 EQUIPMENT																								
FY 1998 EQUIPMENT																								
FY 1999 EQUIPMENT																								
FY 2000 EQUIPMENT																								
FY 2001 EQUIPMENT																								
FY 2002 EQUIPMENT																								
FY 2003 EQUIPMENT																								
TO COMPLETE																								
INSTALL COST - <u>Non-FMP</u>							3	0.012	5	0.022	4	0.020											12	0.054

INSTALLATION SCHEDULE:

In Out	FY 1996 & Prior	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
			1	1	1	2	2	2	2	1				1																	12
				1	2	1	2	1	1	1	1	1	1																		12

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CLASSIFICATION: **UNCLASSIFIED**

P3A		INDIVIDUAL MODIFICATION																						
MODELS OF SYSTEM AFFECTED: <u>CV(N) ARRESTING GEAR</u>		TYPE MODIFICATION: <u>RELIABILITY / MAINTAINABILITY</u>										MODIFICATION TITLE: <u>REC - CROV WSS</u>												
DESCRIPTION/JUSTIFICATION: Recovery Service Change 425 redesigns the weight setting selector on the Constant Run Out Valve (CROV) console to reduce complexity, increase reliability, improve ease of use and reduce overall supportability costs.																								
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: <u>NOT APPLICABLE</u>																								
	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																								
<u>RDT&E</u>																								
<u>PROCUREMENT</u>																								
INSTALLATION KITS (UNIT COST)								0.001																0.001
INSTALLATION KITS							80	0.040															80	0.040
INSTALLATION KITS NONRECURRING																								
EQUIPMENT																								
EQUIPMENT NONRECURRING																								
ENGINEERING CHANGE ORDERS																								
DATA																								
TRAINING EQUIPMENT																								
SUPPORT EQUIPMENT																								
OTHER - PE								0.030		0.020		0.012												0.062
OTHER - ILS								0.005		0.010		0.004												0.019
OTHER - ATE																								
INTERIM CONTRACTOR SUPPORT																								
INSTALL COST - Non-FMP							20	0.020	20	0.023	20	0.024	20	0.025									80	0.092
TOTAL PROCUREMENT							80	0.095		0.053		0.040		0.025									80	0.213

CLASSIFICATION: **UNCLASSIFIED**

P3A (Continued)

INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: CV(N) ARRESTING GEAR

MODIFICATION TITLE: REC - CROV WSS

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: DEPOT

ADMINISTRATIVE LEADTIME: 3 Months

PRODUCTION LEADTIME: 5 Months

CONTRACT DATES: FY 1997: Dec-96

FY 1998: N/A

FY 1999: N/A

DELIVERY DATE: FY 1997: May-97

FY 1998: N/A

FY 1999: N/A

(\$ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
INSTALLATION SUPPORT																								
PRIOR YEARS																								
FY 1995 EQUIPMENT																								
FY 1996 EQUIPMENT																								
FY 1997 EQUIPMENT							20	0.020	20	0.023	20	0.024	20	0.025									80	0.092
FY 1998 EQUIPMENT																								
FY 1999 EQUIPMENT																								
FY 2000 EQUIPMENT																								
FY 2001 EQUIPMENT																								
FY 2002 EQUIPMENT																								
FY 2003 EQUIPMENT																								
TO COMPLETE																								
INSTALL COST - Non-FMP							20	0.020	20	0.023	20	0.024	20	0.025									80	0.092

INSTALLATION SCHEDULE:

	FY 1996	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4						
In																															
Out				10	20	20	20	10		5	5	5	5	5	5	5	5										80				
					20			10	10																		80				

P-3A

CLASSIFICATION: **UNCLASSIFIED**

P3A		INDIVIDUAL MODIFICATION																						
MODELS OF SYSTEM AFFECTED: <u>CV(N) ARRESTING GEAR</u>		TYPE MODIFICATION: <u>RELIABILITY</u>										MODIFICATION TITLE: <u>REC - ELECTRIC FLUID PUMP</u>												
DESCRIPTION/JUSTIFICATION: Recovery Service Change 421 replaces the arresting gear Wobble pump with an improved design that increases system efficiency by decreasing system downtime. This is a TYOM designated Aircraft Launch and Recovery Equipment (ALRE) Top Ten item.																								
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: <u>NOT APPLICABLE</u>																								
	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																								
<u>RDT&E</u>																								
<u>PROCUREMENT</u>																								
INSTALLATION KITS (UNIT COST)										0.002														0.002
INSTALLATION KITS									60	0.120													60	0.120
INSTALLATION KITS NONRECURRING																								
EQUIPMENT																								
EQUIPMENT NONRECURRING																								
ENGINEERING CHANGE ORDERS																								
DATA																								
TRAINING EQUIPMENT																								
SUPPORT EQUIPMENT																								
OTHER - PE								0.035		0.018		0.021		0.015		0.008								0.097
OTHER - ILS								0.010		0.008		0.005		0.003										0.026
OTHER - ATE																								
INTERIM CONTRACTOR SUPPORT																								
INSTALL COST - Non-FMP									*	0.020	17	0.085	26	0.133	17	0.089							60	0.327
TOTAL PROCUREMENT								0.045	60	0.166		0.111		0.151		0.097							60	0.570

* Installation funding based upon start of availability vice hardware availability.

CLASSIFICATION: **UNCLASSIFIED**

P3A (Continued)

INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: CV(N) ARRESTING GEAR

MODIFICATION TITLE: REC - ELECTRIC FLUID PUMP

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: "O" LEVEL MAINTENANCE

ADMINISTRATIVE LEADTIME: 3 Months

PRODUCTION LEADTIME: 12 Months

CONTRACT DATES: FY 1997: N/A

FY 1998: Dec-97

FY 1999: N/A

DELIVERY DATE: FY 1997: N/A

FY 1998: Dec-98

FY 1999: N/A

(\$ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
INSTALLATION SUPPORT										0.010		0.025		0.025		0.025								0.085
PRIOR YEARS																								
FY 1995 EQUIPMENT																								
FY 1996 EQUIPMENT																								
FY 1997 EQUIPMENT																								
FY 1998 EQUIPMENT									*	0.010	17	0.060	26	0.108	17	0.064							60	0.242
FY 1999 EQUIPMENT																								
FY 2000 EQUIPMENT																								
FY 2001 EQUIPMENT																								
FY 2002 EQUIPMENT																								
FY 2003 EQUIPMENT																								
TO COMPLETE																								
INSTALL COST - <u>Non-FMP</u>										0.020	17	0.085	26	0.133	17	0.089							60	0.327

INSTALLATION SCHEDULE:

	FY 1996 & Prior	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In																															60
Out																														60	

* Installation funding based upon start of availability vice hardware availability.

P-3A

CLASSIFICATION: **UNCLASSIFIED**

P3A		INDIVIDUAL MODIFICATION																						
MODELS OF SYSTEM AFFECTED: <u>ALL RAST SYSTEMS</u>		TYPE MODIFICATION: <u>RELIABILITY / MAINTAINABILITY</u>										MODIFICATION TITLE: <u>REC - RAST RSD BLK II IMPROV</u>												
DESCRIPTION/JUSTIFICATION: This Recovery Service Change to the Recovery, Assist, Securing and Traversing (RAST) system corrects Rapid Securing Device (RSD) discrepancies identified by Fleet users which will reduce maintenance man-hour requirements.																								
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: <u>NOT APLICABLE</u>																								
	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																								
<u>RDT&E</u>																								
<u>PROCUREMENT</u>																								
INSTALLATION KITS (UNIT COST)								0.007		0.007		0.007		0.007										0.007
INSTALLATION KITS							58	0.400	58	0.400	57	0.400	57	0.400									230	1.600
INSTALLATION KITS NONRECURRING																								
EQUIPMENT																								
EQUIPMENT NONRECURRING																								
ENGINEERING CHANGE ORDERS																								
DATA																								
TRAINING EQUIPMENT																								
SUPPORT EQUIPMENT																								
OTHER - PE						0.266		0.125		0.038		0.038		0.038		0.023								0.528
OTHER - ILS						0.035		0.065		0.025														0.125
OTHER - ATE																								
INTERIM CONTRACTOR SUPPORT																								
INSTALL COST - Non-FMP									52	0.014	52	0.014	52	0.014	52	0.014	22	0.014					230	0.070
TOTAL PROCUREMENT						0.301	58	0.590	58	0.477	57	0.452	57	0.452		0.037		0.014					230	2.323

CLASSIFICATION: **UNCLASSIFIED**

P3A (Continued)		INDIVIDUAL MODIFICATION (Continued)																													
MODELS OF SYSTEMS AFFECTED: <u>ALL RAST SYSTEMS</u>		MODIFICATION TITLE: <u>REC - RAST RSD BLK II IMPROV</u>																													
INSTALLATION INFORMATION:																															
METHOD OF IMPLEMENTATION: <u>RSD OVERHAUL - SIMA</u>																															
ADMINISTRATIVE LEADTIME: <u>2 Months</u>																															
PRODUCTION LEADTIME: <u>7 Months</u>																															
CONTRACT DATES: FY 1997: <u>11/30/96</u> FY 1998: <u>11/30/97</u> FY 1999: <u>11/30/98</u>																															
DELIVERY DATE: FY 1997: <u>6/30/97</u> FY 1998: <u>6/30/98</u> FY 1999: <u>6/30/99</u>																															
(\$ in Millions)																															
Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total								
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$							
INSTALLATION SUPPORT										0.014		0.014		0.014		0.014		0.014						0.070							
PRIOR YEARS																															
FY 1995 EQUIPMENT																															
FY 1996 EQUIPMENT																															
FY 1997 EQUIPMENT									52	*	6	*											58	*							
FY 1998 EQUIPMENT											46	*	12	*									58	*							
FY 1999 EQUIPMENT													40	*	17	*							57	*							
FY 2000 EQUIPMENT															35	*	22	*						57	*						
FY 2001 EQUIPMENT																															
FY 2002 EQUIPMENT																															
FY 2003 EQUIPMENT																															
TO COMPLETE																															
INSTALL COST - Non-FMP										52	0.014	52	0.014	52	0.014	52	0.014	22	0.014					230	0.070						
INSTALLATION SCHEDULE:																															
	FY 1996 & Prior	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		TOTAL				
In						13	13	13	13	13	13	13	13	13	13	13	13	13	13	12	10						230				
Out						13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	9				230				
* Type Commander funded installation.																															

P-3A

CLASSIFICATION: **UNCLASSIFIED**

P3A																								
INDIVIDUAL MODIFICATION																								
MODELS OF SYSTEM AFFECTED: <u>CV(N) ARRESTING GEAR</u>						TYPE MODIFICATION: <u>SAFETY / RELIABILITY</u>						MODIFICATION TITLE: <u>REC - NON-SWIVEL COUPLING</u>												
DESCRIPTION/JUSTIFICATION:																								
Recovery Service Change 420 replaces the swivel coupling with a non-swivel coupling from the current arresting gear. This design significantly reduces material and maintenance costs for this high maintenance design. This is TYCOM designated Aircraft Launch and Recovery Equipment (ALRE) Top Ten item. A SWIVEL COUPLING FAILURE RESULTS IN LOSS OF AIRCRAFT.																								
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: <u>NOT APPLICABLE</u>																								
	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																								
<u>RDT&E</u>																								
<u>PROCUREMENT</u>																								
INSTALLATION KITS (UNIT COST)								0.004																0.004
INSTALLATION KITS							112	0.448															112	0.448
INSTALLATION KITS NONRECURRING																								
EQUIPMENT																								
EQUIPMENT NONRECURRING																								
ENGINEERING CHANGE ORDERS																								
DATA																								
TRAINING EQUIPMENT																								
SUPPORT EQUIPMENT																								
OTHER - PE								0.043		0.030														0.073
OTHER - ILS								0.005		0.010														0.015
OTHER - ATE																								
INTERIM CONTRACTOR SUPPORT																								
INSTALL COST - Non-FMP											112	*											112	
TOTAL PROCUREMENT							112	0.496		0.040													112	0.536

* This is an Organizational Maintenance item with no associated FMP or NFMP installation costs.

CLASSIFICATION: **UNCLASSIFIED**

P3A (Continued)																									
INDIVIDUAL MODIFICATION (Continued)																									
MODELS OF SYSTEMS AFFECTED: <u>CV(N) ARRESTING GEAR</u>												MODIFICATION TITLE: <u>REC - NON-SWIVEL COUPLING</u>													
INSTALLATION INFORMATION:																									
METHOD OF IMPLEMENTATION: <u>"O" LEVEL MAINTENANCE</u>																									
ADMINISTRATIVE LEADTIME: <u>3 Months</u>												PRODUCTION LEADTIME: <u>12 Months</u>													
CONTRACT DATES: FY 1997: <u>Dec-96</u>												FY 1998: <u>N/A</u> FY 1999: <u>N/A</u>													
DELIVERY DATE: FY 1997: <u>Dec-97</u>												FY 1998: <u>N/A</u> FY 1999: <u>N/A</u>													
(\$ in Millions)																									
Cost:		Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
INSTALLATION SUPPORT																									
PRIOR YEARS																									
FY 1995 EQUIPMENT																									
FY 1996 EQUIPMENT																									
FY 1997 EQUIPMENT												112	*											112	
FY 1998 EQUIPMENT																									
FY 1999 EQUIPMENT																									
FY 2000 EQUIPMENT																									
FY 2001 EQUIPMENT																									
FY 2002 EQUIPMENT																									
FY 2003 EQUIPMENT																									
TO COMPLETE																									
INSTALL COST - Non-FMP												112	*											112	

INSTALLATION SCHEDULE:		FY 1996 & Prior				FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4						
In						12	12	16	16	16	16	16	8																		112				
Out										22	30	30	30																		112				

* This is an Organizational Maintenance item with no associated FMP or NFMP installation costs.

CLASSIFICATION: **UNCLASSIFIED**

P3A		INDIVIDUAL MODIFICATION										
MODELS OF SYSTEM AFFECTED: <u>MK7-2 AND MK7-3 ARRESTING GEAR</u>		TYPE MODIFICATION: <u>SAFETY / RELIABILITY</u>										
MODIFICATION TITLE: <u>REC - AIRCRAFT WSIS</u>												
DESCRIPTION/JUSTIFICATION: Launcher Service Change 417 for the Aircraft Weight Setting Indicating System (WSIS) replaces the DIXON meter / synchro indicator with a more readable indicator that allows easier verification by the arresting gear operator that all four arresting gear engines have the same load settings. Missetting arresting gear engines could cause loss of aircraft; one EA-6B Prowler loss was attributed to missetting the arresting gear engines. The new indicators also are more readable, reliable, and supportable.												
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: <u>NOT APPLICABLE</u>												
	FY 1994 & Prior	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	TC	TOTAL
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)												
<i>RD&E</i>												
<i>PROCUREMENT</i>												
INSTALLATION KITS (UNIT COST)		0.018										0.018
INSTALLATION KITS	8	0.144										0.144
INSTALLATION KITS NONRECURRING												
EQUIPMENT												
EQUIPMENT NONRECURRING												
ENGINEERING CHANGE ORDERS												
DATA												
TRAINING EQUIPMENT												
SUPPORT EQUIPMENT												
OTHER - PE		0.095				0.095		0.020				0.210
OTHER - ILS		0.011				0.011		0.011				0.033
OTHER - ATE												
INTERIM CONTRACTOR SUPPORT												
INSTALL COST - Non-FMP					8	0.424		0.030				0.454
TOTAL PROCUREMENT	8	0.250				0.530		0.061				0.841

CLASSIFICATION: **UNCLASSIFIED**

P3A (Continued) INDIVIDUAL MODIFICATION (Continued)																								
MODELS OF SYSTEMS AFFECTED: <u>MK7-2 AND MK7-3 ARRESTING GEAR</u> MODIFICATION TITLE: <u>REC - AIRCRAFT WSIS</u>																								
INSTALLATION INFORMATION: METHOD OF IMPLEMENTATION: <u>VOYAGE REPAIR TEAM (VRT)</u> ADMINISTRATIVE LEADTIME: <u>N/A Months</u> PRODUCTION LEADTIME: <u>N/A Months</u> CONTRACT DATES: FY 1997: <u>N/A</u> FY 1998: <u>N/A</u> FY 1999: <u>N/A</u> DELIVERY DATE: FY 1997: <u>N/A</u> FY 1998: <u>N/A</u> FY 1999: <u>N/A</u>																								
(\$ in Millions)																								
Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
INSTALLATION SUPPORT								0.070		0.030														0.100
PRIOR YEARS							8	0.354															8	0.354
FY 1995 EQUIPMENT																								
FY 1996 EQUIPMENT																								
FY 1997 EQUIPMENT																								
FY 1998 EQUIPMENT																								
FY 1999 EQUIPMENT																								
FY 2000 EQUIPMENT																								
FY 2001 EQUIPMENT																								
FY 2002 EQUIPMENT																								
FY 2003 EQUIPMENT																								
TO COMPLETE																								
INSTALL COST - Non-FMP							8	0.424		0.030													8	0.454

		FY 1996 & Prior				FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4						
In		8																													8				
Out			3	2	3																										8				

P-3A

CLASSIFICATION: **UNCLASSIFIED**

INDIVIDUAL MODIFICATION																																			
MODELS OF SYSTEM AFFECTED:		<u>RECOVERY EQUIPMENT</u>										TYPE MODIFICATION:		<u>RELIABILITY / MAINTAINABILITY</u>										MODIFICATION TITLE:		<u>REC - MISC S/Cs</u>									
DESCRIPTION/JUSTIFICATION: This exhibit includes various Recovery Service Changes procured or installed with prior year funding, of limited dollar value, and future year procurements. Included are the Auto Lubrication Distributor, Emergency Low Pressure Air Supply, In-Place Calibration, Barricade Safety Stanchion, and Rereeve Hand Pump Improvement																																			
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: <u>NOT APPLICABLE</u>																																			
		<u>FY 1994 & Prior</u>		<u>FY 1995</u>		<u>FY 1996</u>		<u>FY 1997</u>		<u>FY 1998</u>		<u>FY 1999</u>		<u>FY 2000</u>		<u>FY 2001</u>		<u>FY 2002</u>		<u>FY 2003</u>		<u>TC</u>		<u>TOTAL</u>											
		QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$										
FINANCIAL PLAN (IN MILLIONS)																																			
<u>RDT&E</u>																																			
<u>PROCUREMENT</u>																																			
INSTALLATION KITS (UNIT COST)					0.063						0.056					0.107		0.113		0.105						0.096									
INSTALLATION KITS				21	1.331					8	0.450					14	1.500	20	2.252	60	6.300				123	11.833									
INSTALLATION KITS NONRECURRING																																			
EQUIPMENT																																			
EQUIPMENT NONRECURRING																																			
ENGINEERING CHANGE ORDERS																																			
DATA																																			
TRAINING EQUIPMENT																																			
SUPPORT EQUIPMENT																																			
OTHER - PE					0.275		0.369		0.231		0.019					0.150		0.120		0.330						1.494									
OTHER - ILS					0.104		0.063		0.023		0.312		0.085			0.100		0.100		0.150						0.937									
OTHER - ATE																0.050		0.060		0.075						0.185									
INTERIM CONTRACTOR SUPPORT																																			
INSTALL COST - Non-FMP		*	10.538	*	7.229	1	1.939	12	0.832	12	0.447	4	0.150			1	0.125	15	1.750	53	3.100	25	1.340		123	27.450									
TOTAL PROCUREMENT			10.538	21	8.939		2.371		1.086	8	1.228		0.235			14	1.925	20	4.282	60	9.955		1.340		123	41.899									

* Various

CLASSIFICATION: **UNCLASSIFIED**

INDIVIDUAL MODIFICATION (Continued)																								
P3A (Continued)																								
MODELS OF SYSTEMS AFFECTED: <u>RECOVERY EQUIPMENT</u>										MODIFICATION TITLE: <u>REC - MISC S/Cs</u>														
INSTALLATION INFORMATION:																								
METHOD OF IMPLEMENTATION: <u>VRT AND DEPOT</u>																								
ADMINISTRATIVE LEADTIME: <u>N/A Months</u>										PRODUCTION LEADTIME: <u>N/A Months</u>														
CONTRACT DATES: FY 1997: <u>N/A</u>										FY 1998: <u>VARIOUS</u>					FY 1999: <u>N/A</u>									
DELIVERY DATE: FY 1997: <u>N/A</u>										FY 1998: <u>VARIOUS</u>					FY 1999: <u>N/A</u>									
(\$ in Millions)																								
Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
INSTALLATION SUPPORT								0.108		0.075		0.050				0.025		0.050		0.100				0.408
PRIOR YEARS	*	10.538	*	7.229																				17.767
FY 1995 EQUIPMENT					1	1.939	12	0.724	8	0.272													21	2.935
FY 1996 EQUIPMENT																								
FY 1997 EQUIPMENT																								
FY 1998 EQUIPMENT									4	0.100	4	0.100											8	0.200
FY 1999 EQUIPMENT																								
FY 2000 EQUIPMENT																								
FY 2001 EQUIPMENT														1	0.100	7	1.272	6	0.500				14	1.872
FY 2002 EQUIPMENT																8	0.428	12	0.675				20	1.103
FY 2003 EQUIPMENT																		35	1.825	25	1.340	60	3.165	
TO COMPLETE																								
INSTALL COST - Non-FMP	*	10.538	*	7.229	1	1.939	12	0.832	12	0.447	4	0.150			1	0.125	15	1.750	53	3.100	25	1.340	123	27.450

		FY 1996 & Prior				FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4						
In	* 13	2	2	2	2	1	2	2	2	2	1	3	4					1	3	6	8	15	16	17	18	2				123					
Out	* 1	3	3	3	3	3	3	3	3	2	1	1	1					1	3	6	5	13	13	13	14	25				123					

* Various

CLASSIFICATION: **UNCLASSIFIED**

P3A		INDIVIDUAL MODIFICATION																						
MODELS OF SYSTEM AFFECTED: <u>LRLS MK-15 MOD 0 - CV(N)</u>		TYPE MODIFICATION: <u>IMPROVED CAPABILITIES</u>										MODIFICATION TITLE: <u>LRLS CV(N)</u>												
DESCRIPTION/JUSTIFICATION: <div style="border: 1px solid black; padding: 5px; min-height: 50px;"> The Long Range Line-Up System (LRLS) will improve night aircraft carrier landing performance by providing the pilot with more precise line-up information at a greater range. Ship Alterations 8632 for CV's and 8633 for CVN's apply. </div>																								
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: <u>EDM MS III - JANUARY 1998</u>																								
	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																								
<u>RDT&E</u>																								
<u>PROCUREMENT</u>																								
INSTALLATION KITS (UNIT COST)										0.178		0.166												0.173
INSTALLATION KITS									6	1.069	5	0.830											11	1.899
INSTALLATION KITS NONRECURRING																								
EQUIPMENT																								
EQUIPMENT NONRECURRING																								
ENGINEERING CHANGE ORDERS																								
DATA																								
TRAINING EQUIPMENT																								
SUPPORT EQUIPMENT																								
OTHER - PE										0.261		0.465												0.726
OTHER - ILS										0.448		0.151												0.599
OTHER - ATE												0.035												0.035
INTERIM CONTRACTOR SUPPORT																								
INSTALL COST - FMP										0.335	6	1.740	5	1.160									11	3.235
TOTAL PROCUREMENT										6	2.113	5	3.221		1.160								11	6.494

CLASSIFICATION: **UNCLASSIFIED**

P3A (Continued)

INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: LRLS MK-15 MOD 0 - CV(N) MODIFICATION TITLE: LRLS CV(N)

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: ALTERNATE INSTALLATION TEAM (AIT)

ADMINISTRATIVE LEADTIME: 2 Months

PRODUCTION LEADTIME: 11 Months

CONTRACT DATES: FY 1997: N/A FY 1998: 11/97 FY 1999: 11/98

DELIVERY DATE: FY 1997: N/A FY 1998: 10/98 FY 1999: 10/99

(\$ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
INSTALLATION SUPPORT																								
PRIOR YEARS																								
FY 1995 EQUIPMENT																								
FY 1996 EQUIPMENT																								
FY 1997 EQUIPMENT																								
FY 1998 EQUIPMENT									*	0.335	6	1.450											6	1.785
FY 1999 EQUIPMENT											*	0.290	5	1.160									5	1.450
FY 2000 EQUIPMENT																								
FY 2001 EQUIPMENT																								
FY 2002 EQUIPMENT																								
FY 2003 EQUIPMENT																								
TO COMPLETE																								
INSTALL COST - FMP									*	0.335	6	1.740	5	1.160									11	3.235

INSTALLATION SCHEDULE:

		FY 1996 & Prior				FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4						
In									1					2	2	2		3	1												11				
Out													2	2	1	1		3	1	1											11				

* Installation funding based upon FY of start of availability vice hardware delivery.

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CLASSIFICATION: **UNCLASSIFIED**

P3A		INDIVIDUAL MODIFICATION																						
MODELS OF SYSTEM AFFECTED: <u>LRLS MK 16 MOD 0 - SHORE</u>		TYPE MODIFICATION: <u>IMPROVED CAPABILITIES</u>										MODIFICATION TITLE: <u>LRLS - Shorebased</u>												
DESCRIPTION/JUSTIFICATION: <div style="border: 1px solid black; padding: 10px; min-height: 60px;"> The Long Range Line-Up System (LRLS) will improve night aircraft carrier landing performance training at shore stations by providing the pilot with more precise line-up information at a greater range. </div>																								
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: <u>EDM MS III - JANUARY 1998</u>																								
	<u>FY 1994 & Prior</u>		<u>FY 1995</u>		<u>FY 1996</u>		<u>FY 1997</u>		<u>FY 1998</u>		<u>FY 1999</u>		<u>FY 2000</u>		<u>FY 2001</u>		<u>FY 2002</u>		<u>FY 2003</u>		<u>TC</u>		<u>TOTAL</u>	
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																								
<i>RD&E</i>																								
<i>PROCUREMENT</i>																								
INSTALLATION KITS (UNIT COST)																								
INSTALLATION KITS																								
INSTALLATION KITS NONRECURRING																								
EQUIPMENT																								
EQUIPMENT NONRECURRING																								
ENGINEERING CHANGE ORDERS																								
DATA																								
TRAINING EQUIPMENT																								
SUPPORT EQUIPMENT																								
OTHER - PE																								
OTHER - ILS																								
OTHER - ATE																								
INTERIM CONTRACTOR SUPPORT																								
INSTALL COST - Non-FMP																								
TOTAL PROCUREMENT																								

* Installation funding based upon FY of start of availability vice hardware delivery and includes design services.

CLASSIFICATION: **UNCLASSIFIED**

P3A (Continued)

INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: LRLS MK 16 MOD 0 - SHORE MODIFICATION TITLE: LRLS - Shorebased

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: ALTERNATE INSTALLATION TEAM (AIT)

ADMINISTRATIVE LEADTIME: 1 Months

PRODUCTION LEADTIME: 11 Months

CONTRACT DATES: FY 1997: N/A FY 1998: 11/97 FY 1999: 11/98

DELIVERY DATE: FY 1997: N/A FY 1998: 10/98 FY 1999: 10/99

(\$ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
INSTALLATION SUPPORT																								
PRIOR YEARS																								
FY 1995 EQUIPMENT																								
FY 1996 EQUIPMENT																								
FY 1997 EQUIPMENT																								
FY 1998 EQUIPMENT									*	0.030	5	0.750											5	0.780
FY 1999 EQUIPMENT												0.030	5	0.765									5	0.795
FY 2000 EQUIPMENT																								
FY 2001 EQUIPMENT																								
FY 2002 EQUIPMENT																								
FY 2003 EQUIPMENT																								
TO COMPLETE																								
INSTALL COST - Non-FMP									*	0.030	5	0.780	5	0.765									10	1.575

INSTALLATION SCHEDULE:

	FY 1996 & Prior	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003	TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4			
In														1	2	2	1	2	2	2	1	2	2	2				10
Out														2	2	1		1	2	2	2	2	1	2	2			10

* Installation funding based upon FY of start of availability vice hardware delivery and includes design services.

P-3A

CLASSIFICATION: **UNCLASSIFIED**

P3A		INDIVIDUAL MODIFICATION																						
MODELS OF SYSTEM AFFECTED: <u>NEW SYSTEM - CV(N)</u>		TYPE MODIFICATION: <u>IMPROVED CAPABILITIES</u>										MODIFICATION TITLE: <u>ADMACS / ISIS - CV(N)</u>												
DESCRIPTION/JUSTIFICATION: <div style="border: 1px solid black; padding: 5px; min-height: 40px;"> The Aviation Data Management and Control System / Integrated Shipboard Information System (ADMACS / ISIS) is a real-time configuration managed, tactical local area network (LAN) providing connectivity among all Air Operations and Aircraft Launch and Recovery Equipment (ALRE) work spaces aboard CV(N)s. Ship Alterations 8623 for CV's and 8624 for CVN's apply. </div>																								
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: <u>NOT APPLICABLE</u>																								
	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																								
<u>RDT&E</u>							6.108		2.915		5.575		3.668											18.266
<u>PROCUREMENT</u>																								
INSTALLATION KITS (UNIT COST)												1.500		1.500		1.500								1.500
INSTALLATION KITS												3	4.500	3	4.500	4	6.000						10	15.000
INSTALLATION KITS NONRECURRING																								
EQUIPMENT																								
EQUIPMENT NONRECURRING																								
ENGINEERING CHANGE ORDERS																								
DATA																								
TRAINING EQUIPMENT																								
SUPPORT EQUIPMENT																								
OTHER - PE												1.430		1.416		1.400		0.001						4.247
OTHER - ILS										0.352		0.482		0.221		0.160		0.007						1.222
OTHER - ATE																								
INTERIM CONTRACTOR SUPPORT																								
INSTALL COST - FMP													2	1.420	4	2.835	4	2.179					10	6.434
TOTAL PROCUREMENT										0.352	3	6.412	3	7.557	4	10.395		2.187					10	26.903

CLASSIFICATION: **UNCLASSIFIED**

P3A (Continued)

INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: NEW SYSTEM - CV(N)

MODIFICATION TITLE: ADMACS / ISIS - CV(N)

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: SHIPYARD / AIT

ADMINISTRATIVE LEADTIME: 1 Months

PRODUCTION LEADTIME: 11 Months

CONTRACT DATES: FY 1997: N/A

FY 1998: N/A

FY 1999: 11/98

DELIVERY DATE: FY 1997: N/A

FY 1998: N/A

FY 1999: 10/99

(\$ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
INSTALLATION SUPPORT																								
PRIOR YEARS																								
FY 1995 EQUIPMENT																								
FY 1996 EQUIPMENT																								
FY 1997 EQUIPMENT																								
FY 1998 EQUIPMENT																								
FY 1999 EQUIPMENT													2	1.250	1	0.600							3	1.850
FY 2000 EQUIPMENT													*	0.170	3	1.750							3	1.920
FY 2001 EQUIPMENT															*	0.485	4	2.179					4	2.664
FY 2002 EQUIPMENT																								
FY 2003 EQUIPMENT																								
TO COMPLETE																								
INSTALL COST - FMP													2	1.420	4	2.835	4	2.179					10	6.434

INSTALLATION SCHEDULE:

		FY 1996 & Prior	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4						
In															1	1	1		1	1	1		1	1	1	1		10				
Out																	1	1		1	1	2	1	1	1	1		10				

* Installation funding based upon FY of start of availability vice hardware delivery and includes design services.

P-3A

CLASSIFICATION: **UNCLASSIFIED**

P3A																								
INDIVIDUAL MODIFICATION																								
MODELS OF SYSTEM AFFECTED: <u>MK 13 MOD 0 (CV(N))</u>					TYPE MODIFICATION: <u>ENHANCEMENT</u>					MODIFICATION TITLE: <u>IFLOLS - CV(N)</u>														
DESCRIPTION/JUSTIFICATION:																								
The Improved Fresnel Lens Optical Landing System (IFLOLS) replaces the existing aircraft carrier Fresnel Lens Optical Landing System (FLOLS) with an improved design that will provide increased glide scope display sensitivity with improved optics and stabilization. Ship Alterations 8634 for CV's and 8635 for CVN's apply																								
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: <u>EDM MS III - OCTOBER 1998</u>																								
	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																								
<u>RDT&E</u>							4.565		2.870		1.93		0.400											9.765
<u>PROCUREMENT</u>																								
INSTALLATION KITS (UNIT COST)													0.900		0.900									0.900
INSTALLATION KITS												5	4.500	5	4.500								10	9.000
INSTALLATION KITS NONRECURRING																								
EQUIPMENT																								
EQUIPMENT NONRECURRING																								
ENGINEERING CHANGE ORDERS																								
DATA																								
TRAINING EQUIPMENT																								
SUPPORT EQUIPMENT																								
OTHER - PE										0.205		0.466		0.423		0.375								1.469
OTHER - ILS								0.040		0.557		0.850		0.138		0.188								1.773
OTHER - ATE												0.035		0.037		0.005								0.077
INTERIM CONTRACTOR SUPPORT																								
INSTALL COST - FMP											1	1.620	6	2.806	3	1.493							10	5.919
TOTAL PROCUREMENT								0.040		0.762	5	7.471	5	7.904		2.061							10	18.238

CLASSIFICATION: **UNCLASSIFIED**

P3A (Continued)

INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: MK 13 MOD 0 (CV(N))

MODIFICATION TITLE: IFLOLS - CV(N)

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: SHIPYARD - SHIP ALTERATION (SA)

ADMINISTRATIVE LEADTIME: 1 Months

PRODUCTION LEADTIME: 11 Months

CONTRACT DATES: FY 1997: N/A

FY 1998: N/A

FY 1999: 11/98

DELIVERY DATE: FY 1997: N/A

FY 1998: N/A

FY 1999: 10/99

(\$ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
INSTALLATION SUPPORT												0.030		0.120		0.143								0.293
PRIOR YEARS																								
FY 1995 EQUIPMENT																								
FY 1996 EQUIPMENT																								
FY 1997 EQUIPMENT																								
FY 1998 EQUIPMENT																								
FY 1999 EQUIPMENT											1*	1.264	4	1.791									5	3.055
FY 2000 EQUIPMENT											*	0.326	2	0.895	3	1.350							5	2.571
FY 2001 EQUIPMENT																								
FY 2002 EQUIPMENT																								
FY 2003 EQUIPMENT																								
TO COMPLETE																								
INSTALL COST - FMP											1*	1.620	6	2.806	3	1.493							10	5.919

INSTALLATION SCHEDULE:

	FY 1996 & Prior	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003	TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4			
In														1	2			1	2									10
Out										1*	*	1	2	3				2		1								10

* Installation funding based upon FY of start of availability vice hardware delivery, includes Design Services and Advance Planning.

P-3A

CLASSIFICATION: **UNCLASSIFIED**

P3A		INDIVIDUAL MODIFICATION																						
MODELS OF SYSTEM AFFECTED: <u>MK 14 MOD O (SHORE).</u>		TYPE MODIFICATION: <u>ENHANCEMENT</u>										MODIFICATION TITLE: <u>IFLOLS - Shorebased</u>												
DESCRIPTION/JUSTIFICATION: The Improved Fresnel Lens Optical Landing System (IFLOLS) replaces the existing shore based Fresnel Lens Optical Landing System (FLOLS) with an improved design that will provide increased glide scope display sensitivity with improved optics and stabilization.																								
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: <u>EDM MS III - OCTOBER 1998</u>																								
	<u>FY 1994 & Prior</u>		<u>FY 1995</u>		<u>FY 1996</u>		<u>FY 1997</u>		<u>FY 1998</u>		<u>FY 1999</u>		<u>FY 2000</u>		<u>FY 2001</u>		<u>FY 2002</u>		<u>FY 2003</u>		<u>TC</u>		<u>TOTAL</u>	
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																								
<u>RDT&E</u>																								
<u>PROCUREMENT</u>																								
INSTALLATION KITS (UNIT COST)																								
INSTALLATION KITS																								
INSTALLATION KITS NONRECURRING																								
EQUIPMENT																								
EQUIPMENT NONRECURRING																								
ENGINEERING CHANGE ORDERS																								
DATA																								
TRAINING EQUIPMENT																								
SUPPORT EQUIPMENT																								
OTHER - PE																								
OTHER - ILS																								
OTHER - ATE																								
INTERIM CONTRACTOR SUPPORT																								
INSTALL COST - Non-FMP																								
TOTAL PROCUREMENT																								

CLASSIFICATION: **UNCLASSIFIED**

INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: MK 14 MOD O (SHORE). MODIFICATION TITLE: IFLOLS - Shorebased

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: ALTERNATE INSTALLATION TEAM (AIT)

ADMINISTRATIVE LEADTIME: 1 Months

PRODUCTION LEADTIME: 11 Months

CONTRACT DATES: FY 1997: N/A

FY 1998: N/A

FY 1999: 11/98

DELIVERY DATE: FY 1997: N/A

FY 1998: N/A

FY 1999: 10/99

(\$ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
INSTALLATION SUPPORT												0.030		0.120		0.120		0.050						0.320
PRIOR YEARS																								
FY 1995 EQUIPMENT																								
FY 1996 EQUIPMENT																								
FY 1997 EQUIPMENT																								
FY 1998 EQUIPMENT																								
FY 1999 EQUIPMENT											*	1.400	5	1.100									5	2.500
FY 2000 EQUIPMENT													*	1.400	7	1.450							7	2.850
FY 2001 EQUIPMENT														*	1.000	7	1.450						7	2.450
FY 2002 EQUIPMENT																								
FY 2003 EQUIPMENT																								
TO COMPLETE																								
INSTALL COST - <u>Non-FMP</u>												1.430	5	2.620	7	2.570	7	1.500					19	8.120

INSTALLATION SCHEDULE:

	FY 1996 & Prior	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In														1	2	2	1	2	2	2	1	2	2	2			19
Out														2	2	1		1	2	2	2						19

* Installation funding based upon FY of start of availability vice hardware delivery.

P-3A

CLASSIFICATION: **UNCLASSIFIED**

P3A																								
INDIVIDUAL MODIFICATION																								
MODELS OF SYSTEM AFFECTED: <u>MK 11-0, MK 12-0 V/STOL OLS</u>				TYPE MODIFICATION: <u>PERFORMANCE</u>				MODIFICATION TITLE: <u>V/STOL OLS</u>																
DESCRIPTION/JUSTIFICATION:																								
Vertical / Short Take-Off and Landing Optical Landing System (V/STOL OLS) installations on board LHA and LHD Class Ships and at V/STOL pilot training facilities. A total of eight units were delivered and installed in FY96. The remaining six units will deliver and install in FY-97.																								
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: <u>I.O.C. 12/95</u>																								
	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																								
<u>RDT&E</u>																								
<u>PROCUREMENT</u>																								
INSTALLATION KITS (UNIT COST)		1.039																						1.039
INSTALLATION KITS	14	14.542																					14	14.542
INSTALLATION KITS NONRECURRING																								
EQUIPMENT																								
EQUIPMENT NONRECURRING																								
ENGINEERING CHANGE ORDERS																								
DATA																								
TRAINING EQUIPMENT																								
SUPPORT EQUIPMENT																								
OTHER - PE		0.300		0.050		0.040		0.040																0.430
OTHER - ILS		1.100		0.600		0.100		0.070																1.870
OTHER - ATE																								
INTERIM CONTRACTOR SUPPORT																								
INSTALL COST - Non-FMP					8	1.918	6	1.241															14	3.159
TOTAL PROCUREMENT	14	15.942		0.650		2.058		1.351															14	20.001

CLASSIFICATION: **UNCLASSIFIED**

INDIVIDUAL MODIFICATION (Continued)																								
P3A (Continued)																								
MODELS OF SYSTEMS AFFECTED: <u>MK 11-0, MK 12-0 V/STOL OLS</u>											MODIFICATION TITLE: <u>V/STOL OLS</u>													
INSTALLATION INFORMATION:																								
METHOD OF IMPLEMENTATION: <u>VOYAGE REPAIR TEAMS (VRT)</u>																								
ADMINISTRATIVE LEADTIME: <u>N/A Months</u>											PRODUCTION LEADTIME: <u>12 Months</u>													
CONTRACT DATES: FY 1997: <u>N/A</u>											FY 1998: <u>N/A</u>					FY 1999: <u>N/A</u>								
DELIVERY DATE: FY 1997: <u>N/A</u>											FY 1998: <u>N/A</u>					FY 1999: <u>N/A</u>								
(\$ in Millions)																								
Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
INSTALLATION SUPPORT																								
PRIOR YEARS					8	1.918	6	1.241															14	3.159
FY 1995 EQUIPMENT																								
FY 1996 EQUIPMENT																								
FY 1997 EQUIPMENT																								
FY 1998 EQUIPMENT																								
FY 1999 EQUIPMENT																								
FY 2000 EQUIPMENT																								
FY 2001 EQUIPMENT																								
FY 2002 EQUIPMENT																								
FY 2003 EQUIPMENT																								
TO COMPLETE																								
INSTALL COST - Non-FMP					8	1.918	6	1.241															14	3.159

		FY 1996 & Prior				FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4						
In		8																													14				
Out		8																													14				

CLASSIFICATION:

UNCLASSIFIED

Exhibit P-20, Requirements Study				APPROPRIATION/BUDGET ACTIVITY			DATE:	
				<small>OTHER PROCUREMENT, NAVY / BA 3 AVIATION SUPPORT EQUIPMENT</small>			February 1998	
P-1 ITEM NOMENCLATURE				Admin Leadtime (after Oct1):			Prod Leadtime :	
AIRCRAFT LAUNCH AND RECOVERY EQUIPMENT (ALRE) - 43SJ				1 Month			11 Months	
SJ260 AS/32P-25 Fire Truck	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
Buy Summary		50	14					
Unit Cost		175	185					
Total Cost		\$8,750	\$2,590					
Asset Dynamics								
Beginning Asset Position				22	64	64	64	64
Deliveries from all prior year funding								
Deliveries from FY 1997 funding			22	28				
Deliveries from FY 1998 funding				14				
Deliveries from FY 1999 funding								
Deliveries from subsequent years' funding								
Other Gains								
Combat Losses/Usage								
Training Losses/Usage								
Test Losses/Usage								
Other Losses/Usage								
Disposals/Retirements/Attritions/etc.								
End of Year Asset Position								
Inventory Objective or Current Authorized Allowance	64	64	64	64	64	64	64	64
Inventory Objective	64	Actual Training Expenditures	Other than Training Usage	Disposals (Vehicles/Other)	Vehicles Eligible for FY 1998 Replacement:	Aircraft: TOAI:		
Assets Rqd For Combat Loads:	FY 1996 thru XXXXX:	FY 1996 thru XXXXX:	FY 1996 thru XXXXX:	FY 1996 thru XXXXX:	Vehicles Eligible for FY 1999 Replacement:	PAA: TAI		
WRM Rqmt:	FY 1995:	FY 1995:	FY 1995:	FY 1995:	Vehicle Augment:	Attrition Res:		
Pipeline:	FY 1994:	FY 1994:	FY 1994:	FY 1994:		BAI		
Other:	FY 1993:	FY 1993:	FY 1993:	FY 1993:		Inactive Inv:		
TOTAL:						Storage:		
Remarks:								

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CLASSIFICATION:

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET								DATE: February 1998					
P-40													
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA3 - AVIATION SUPPORT EQUIPMENT								P-1 ITEM NOMENCLATURE Predator UAV Defense Airborne Reconnaissance Program (DARP) - J3D1					
Program Element for Code B Items:								Other Related Program Elements					
	Prior Years	ID Code	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total
QUANTITY													
COST (In Millions)	*		*	*	\$7.8	**	**	**	**	**	**	**	**
<p>Funding in the Navy Predator Unmanned Aerial Vehicle (UAV) line provides for the procurement of the UAV Common Automatic Recovery System (CARS) for several UAV systems.</p> <p>The purpose of the UAV CARS program is to provide an automated recovery system for all classes of UAVs that will reduce operational mishaps, operator fatigue, operator training, and associated costs. The UAV CARS is a millimeter-wave-tracking radar system that provides system position data to recover UAVs automatically. UAV CARS consist of one track subsystem and airborne subsystems for installation in UAV air vehicles with an option for a ship motion sensor. The Pioneer system was initially selected for fielding of the UAV CARS. FY1997 funds the initial acquisition of UAV CARS for Predator and Tactical UAV systems. This program requires that a Predator air vehicle and ground control station assets be available during the 21 April 1998 through 14 September 1998 time frame to support systems integration/tests and demonstration.</p> <p>*Prior to FY1997 the Predator program was budgeted in the Procurement Defense-Wide appropriation.</p> <p>**Except for the UAV CARS initial acquisition beginning in FY1997, the Predator program is budgeted by the Air Force.</p>													

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CLASSIFICATION:

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WEAPONS SYSTEM COST ANALYSIS P-5										Weapon System								DATE: February 1998		
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA3 - AVIATION SUPPORT EQUIPMENT										ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD Predator UAV Defense Airborne Reconnaissance Program (DARP) - J3D1									
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS																	
			Prior Years	FY 1995			FY 1996			FY 1997			FY 1998			FY 1999				
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost		
	UAV CARS CARS Units Logistics										7	866	6,062 1,772							
				*		*				*						**			**	
				*		*			*							**			**	
			* Prior to FY1997 the Predator program was budgeted in the Procurement Defense-Wide Appropriation.																	
			** Except for the UAV CARS initial acquisition, beginning in FY1997 the Predator program is budgeted by the Air Force.																	

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CLASSIFICATION:

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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System		A. DATE February 1998			
B. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA3 - AVIATION SUPPORT EQUIPMENT					C. P-1 ITEM NOMENCLATURE Predator UAV Defense Airborne Reconnaissance Program (DARP)				SUBHEAD J3D1	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
<u>Predator UAV</u> FY1997 - CARS	7	866	PEO(CU) - UAV JPO		SS/FFP	Sierra Nevada Corp., Sierra Nevada	Sep 97	Oct 98	No	Feb 98
D. REMARKS										

DD Form 2445, JUL 87	Previous editions are obsolete	P-1 SHOPPING LIST	
311 / 244		ITEM NO 131 PAGE 4	Exhibit P-21 Production Schedule

CLASSIFICATION:

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BUDGET ITEM JUSTIFICATION SHEET P-40								DATE: February 1998					
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA-3 - AVIATION SUPPORT EQUIPMENT								P-1 ITEM NOMENCLATURE: Pioneer UAV Defense Airborne Reconnaissance Program (DARP) - J3D2					
Program Element for Code B Items:								Other Related Program Elements					
	Prior Years	ID Code	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total
QUANTITY													
COST (In Millions)	*		*	*	\$25.0	**	**	**	**	**	**	**	**
<p>The Pioneer UAV System provides near-real-time reconnaissance, surveillance, target acquisition (RSTA) and combat assessment (CA) within line-of-sight of a ground control station, both day and night. The Pioneer UAV provides high quality video imagery to ground processing stations via datalink. Nine Pioneer systems are fielded. Six systems support U.S. Navy operations, including current testing/evaluation and deployment aboard three configured LPD ships; two systems support U.S. Marine Corps land based operations, and the remaining system supports training requirements. The Pioneer finding provides: replenishment spares needed to improve reliability and maintainability to achieve 85% readiness and replenish Unit Support Kits (USKs); readiness impact items that are required to maintain systems safety changes or correct critical system deficiencies resulting from emerging obsolescence; ability to maintain the readiness posture of operationally deployed systems; and improvements to meet requirements generated from Desert Storm, Somalia, and Bosnia operations lessons learned. In FY1996 procurement funds were used to buy critical spare parts and obsolescence engineering change proposals (ECPs). In FY1997 procurement funds were used to buy payloads, attrition spares and engineering change proposals such as plotter ECP, TCU air conditioner ECP, PCS autotracking ECP, engine improvements and shipboard antennas. In FY1998 funds are for air vehicles, payloads and ECPs that provide better weather resistance, flotation and locator transmitter, further engine improvements or replacement engine procurement, circuit board ECPs, intelligence bay ECP and obsolescence ECPs. FY1999-FY2002 procurement funds will buy payloads and support and equipment to maintain the Pioneer system. This profile supports the present TUAV transition schedule that effectively extends Pioneer through FY2003.</p> <p>* Prior to FY1997 the Pioneer program was budgeted in the Procurement, Defense-Wide appropriation. ** In FY1998 and beyond Pioneer is budgeted in the Weapons Procurement, Navy (WPN) appropriation.</p>													

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WEAPONS SYSTEM COST ANALYSIS P-5										Weapon System								DATE: Feb-98			
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA-3 - AVIATION SUPPORT EQUIPMENT										ID Code		P-1 ITEM NOMENCLATURE/SUBHEAD Pioneer UAV Defense Airborne Reconnaissance Pogram (DARP) - J3D2									
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS																		
			Prior Years	FY 1995			FY 1996			FY 1997			FY 1998			FY 1999					
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost			
	Pioneer Sustem																				
	Unit Support Hardware			*		*			*			8,300			**			**			
	Production Support			*		*			*			3,676			**			**			
	Air Vehicles			*		*			*						**			**			
	Payloads			*		*			*	20	252	5,042			**			**			
	Engineer Change Proposals (ECPs)			*		*			*			8,014			**			**			

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CLASSIFICATION:

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System		A. DATE Feb-98			
B. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA-3 - AVIATION SUPPORT EQUIPMENT					C. P-1 ITEM NOMENCLATURE Pioneer UAV Defense Airborne Reconnaissance Program (DARP)				SUBHEAD J3D2	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
<u>Pioneer UAV</u> FY1997 - Payloads	20	252	PEO(CU) - UAV JPO	Mar 97	SS/FFP	Pioneer UAV, Inc. Hunt Valley, MD	May 97	Mar 98	Yes	
D. REMARKS										

BUDGET ITEM JUSTIFICATION SHEET										DATE February 1998		
APPROPRIATION/BUDGET ACTIVITY OP,N - BA3 AVIATION SUPPORT EQUIPMENT								P-1 ITEM NOMENCLATURE METEOROLOGICAL EQUIPMENT 422600			SUBHEAD 53SP	
	PY *			FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	TO COMP	TOTAL
QUANTITY												
COST (in millions)	\$172.6			\$16.3	\$17.4	\$32.9	\$31.9	\$32.3	\$33.1	\$33.4	Cont.	Cont.

* Note: PY represents FY 1990 -1996.

PROGRAM COVERAGE/JUSTIFICATION FOR BUDGET YEAR REQUIREMENTS:

This item provides new and replacement meteorological equipment for all Naval/Marine Corps Air Stations and all Navy ships and other activities required to take weather observations and provide safety of flight information. The procurement has been thoroughly coordinated with the other DOD and civilian agencies. Equipment is funded under the following programs:

The AN/SMQ-11 is an environmental satellite receiver/recorder that is used to receive remotely sensed data from the Defense Meteorological Satellite Program (DMSP) satellites, the National Oceanic and Atmospheric Administration (NOAA), National Polar Orbiting Environmental Satellite System (NPOESS), the Geostationary Orbiting Environmental Satellites (GOES), Low Resolution Weather Facsimile (WEFAX) and the GEOSAT Follow-On (GFO). The upgrade will allow the system to receive and preprocess additional environmental satellites, comply with open systems architecture standards and provide for antenna replacement. \$.93 million in FY-98 and \$4.2 million in FY-99 will support various processor, printer, peripherals and antenna upgrades to AN/SMQ-11 systems.

The Mini-Rawin System (MRS) is a portable commercial off-the-shelf upper air sounding system used to measure pressure, temperature, humidity and wind speed and direction from the surface to the lower stratosphere. \$.8 million in FY-96 (60 units) and \$.9 million in FY-97 (68 units) supports the upgrade of existing units to enable use of the Global Positioning System (GPS).

The Automated Surface Observing System (ASOS) is an automatic system used to sense, collect, display and disseminate real time meteorological information at both Navy and Marine Corps Air stations and remote sites such as weapon ranges and port facilities. \$3.4 million (16 systems) in FY- 96 was executed for ASOS.

The Tactical Environmental Support Systems (TESS) Upgrade - Procure workstations, servers, input/output control devices, CPUs and back planes to replace original equipment for evolutionary acquisition block upgrades. \$8.3 million in FY-96, \$7.3 million in FY-97, \$7.7 million in FY-98 and \$11.3 million in FY-99 supports the TESS evolutionary acquisition Upgrade. TESS software is required to be upgraded to Windows environment with a C2 Secure Operating System as required for cutover of connectivity to DON/DISNET. Associated hardware upgrades that are required include CPU cards, RAM memory, clock, BUS, disk storage and disk controllers. TESS Upgrades planned for FY 96-99 include Fleet Numerical Meteorology and Oceanography Center (FNMOC) and Naval Oceanographic Office (NAVO) and the five regional centers at Guam, Pearl Harbor, Norfolk, Suitland and Rota Spain, and at afloat and ashore sites.

Shipboard Meteorological and Oceanographic Observing System (SMOOS) P3I will provide Upgrades to existing suites to add smaller sensors such as radiometers, \$.2 million in FY-96. \$.7 million in FY-99 is budgeted for MORIAH sensor upgrades. MORIAH is a major block upgrade consisting of shipboard environmental sensors, automated data acquisition and processing system, multiple system interface and displays.

Fleet Marine Force Meteorological Equipment - Meteorological Equipment required to upgrade and replace the existing Meteorological Mobile Facilities (METMF). The METMF Replacement (METMF (R)) will a fully integrated system capable of automatic data acquisition from communications channels providing METOC data, meteorological satellite, meteorological Doppler radar and local and remote meteorological sensors. The METMF (R) will be equipped to support Marine Air-Ground Task Force (MAGTF) operations world wide.

BUDGET ITEM JUSTIFICATION SHEET (CONTINUATION)		DATE February 1998					
APPROPRIATION/BUDGET ACTIVITY OP,N - BA3 AVIATION SUPPORT EQUIPMENT		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%;">P-1 ITEM NOMENCLATURE</td> <td style="width: 30%;">SUBHEAD</td> </tr> <tr> <td>METEOROLOGICAL EQUIPMENT 422600</td> <td>53SP</td> </tr> </table>		P-1 ITEM NOMENCLATURE	SUBHEAD	METEOROLOGICAL EQUIPMENT 422600	53SP
P-1 ITEM NOMENCLATURE	SUBHEAD						
METEOROLOGICAL EQUIPMENT 422600	53SP						
<p>Miscellaneous Meteorological Equipment - General Purpose Met Equipment covered unscheduled purchase of items such as: laser recorders, facsimile recorders, runway temperature instruments, special tape recorders, power supplies, printed circuit module, etc.</p> <p>The Navy Integrated Tactical Environmental Subsystem (NITES) provides tactical environmental support to non-TESS (3) ships and ashore command and control and other facilities by establishing remote workstations that provide inputs to mission planning systems and tactical decision aids. NITES merged into the TESS Upgrade in FY-96. \$7.1 million (101 systems) in FY-95 was executed for NITES.</p> <p>The Next Generation Radar (NEXRAD) Remote includes all hardware and software required for the request, display, local storage and local annotation and distribution of weather/storm data from National Weather Service, Federal Aviation Administration and Air Force weather radars. The Navy procures remote user processors, not complete radars. \$1.5 million (5 systems) in FY-95 was executed for NEXRAD.</p> <p>The Supplemental Weather Radar (SWR) is a small, light weight, COTS Doppler radar system that will be located at sites where NEXRAD coverage is not available to Navy/USMC activities. The SWR will provide real-time surveillance and advance warning of potentially severe weather phenomena that are developing near or moving towards USN and USMC units. \$.98 million in FY-96 (1 unit) and \$2.3 million in FY-97 (3 units) and \$3.5 million in FY-99 (5 units) is utilized for the procurement of SWR.</p> <p>METOC Air, Surface, Undersea Reconnaissance Equipment (MEASURE) is comprised of a diverse suite of off-board sensors and associated processing systems. MEASURE is used to obtain critical METOC data in denied or remote areas. \$1.2 million in FY-99 will provide ship/aircraft deployed drifting buoys and aircraft deployed hinterland clandestine micro sensors.</p> <p>Aviation Safety System Upgrades are GOTS/COTS hardware and associated software upgrades to installed, multi-agency procured safety of flight equipment, such as NEXRAD and ASOS, installed at all Navy and Marine Corps Air facilities worldwide. In FY-99, \$1.0 million will provide required system upgrades developed by the lead agency (in most cases, the National Weather Service). These periodic GOTS/COTS upgrades are essential to the continued use of the equipments.</p> <p>Training Support - Necessary to train the initial cadre of instructional personnel with the end item.</p> <p>Installation of Equipment - Installation efforts include plans, site surveys, BESEPS, equipment installation and checkout.</p>							
MODIFICATION SUMMARY (\$M)							
Listed below are the costs (i.e. hardware and installation) for equipment being procured in this line item that have associated installation costs budgeted:							
<u>EQUIPMENT</u>	<u>FY97</u>	<u>FY98</u>	<u>FY99</u>	<u>FY00</u>	<u>FY01</u>	<u>FY02</u>	<u>FY03</u>
MRS UPGRADE	1.2						
ASOS	0.3						
TESS UPGRADES	10.0	10.6	14.5	14.0	13.9	14.6	15.4
NITES							
SMOOS P3I			0.7	5.7	6.0	6.9	7.2
SUPPLEMENTAL WEATHER RADAR	2.3	0.9	3.6				
AN/SMQ-11							
AN/SMQ-11 UPGRADES		1.5	5.9	4.5	5.1	5.0	4.9
AVIATION SAFETY SYSTEM UPGRADES			1.1	1.2	1.4	1.5	1.6
Total	13.8	13.0	25.8	25.4	26.4	28.0	29.1

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COST ANALYSIS															DATE: February 1998				
B. APPROPRIATION/BUDGET ACTIVITY OP,N - BA3 AVIATION SUPPORT EQUIPMENT										C. P-1 ITEM NOMENCLATURE METEOROLOGICAL EQUIPMENT 422600					SUBHEAD 53SP				
COST CODE	ELEMENT OF COST	IDENT CODE	TOTAL COST IN THOUSANDS OF DOLLARS																
			PY*		FY 1995			FY 1996			FY 1997			FY 1998			FY 1999		
			QTY	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
SP051	AN/SMQ-11 UPGRADES - SPACE	A												VAR		929	VAR		4,182
SP115	MRS UPGRADES	A										68	14	925					
SP120	NEXRAD	A																	
SP130	ASOS	A																	
SP190	TESS UPGRADES	A										VAR		7,266	VAR		7,691	VAR	11,284
SP195	NITES	A																	
SP200	SMOOS P3I - MORIAH	A																VAR	665
SP300	MET EQUIPMENT	N/A										VAR		2,472	VAR		5,283	VAR	5,950
SP400	GP EQUIPMENT	N/A										VAR		132					
SP500	SUPPLEMENTAL WEATHER RADAR	N/A										3	776	2,327				5	702
SP525	MEASURE	N/A																VAR	1,198
SP550	AVIATION SAFETY SYS UPGRADES	N/A																VAR	1,028
SP666	TRAINING SUPPORT	N/A																	
SP776	INSTALL SHORE	N/A										VAR		1,901	VAR		1,167	VAR	1,317
SP777	INSTALL SHIP	N/A										VAR		1,304	VAR		2,341	VAR	3,756
	INSTALL DSA																2,221 120		3,634 122
	TOTAL PROGRAM													16,327			17,411		32,892
* Note: PY represents FY 90 - 94																			
1/ The amount identified against this cost element reflects total prior year funding associated with cost elements no longer financed in FY 1995 and beyond.																			

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PROCUREMENT HISTORY AND PLANNING											A. DATE February 1998	
B. APPROPRIATION/BUDGET ACTIVITY OP,N - BA3 AVIATION SUPPORT EQUIPMENT						C. P-1 ITEM NOMENCLATURE METEOROLOGICAL EQUIPMENT 422600				SUBHEAD 53SP		
COST CODE	ELEMENT OF COST	FY	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	LOCATION OF PCO	RFP ISSUE DATE	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
SP115	MRS UPGRADES	97	VAISALA, MA	SS/FFP/OP	SPAWAR	Aug-96	Dec-96	Jun-97	68	13,603	Yes	N/A
SP500	SUPPLEMENTAL WEATHER RADAR*	96	ENTERPRISE ELEC., AL	C/FFP	NISE E/CH	Jun-96	Dec-96	Feb-98	1	980,000	Yes	N/A
		97	ENTERPRISE ELEC., AL	C/FFP/OP	NISE E/CH	Jun-96	Aug-97	Mar-98	3	775,667	Yes	N/A
		99	ENTERPRISE ELEC., AL	C/FFP/OP	NISE E/CH	Jun-96	Nov-98	Mar-99	5	702,400	Yes	N/A
D. REMARKS * FY 96 unit price includes non-recurring for data deliverables and pre-faulted modules.												

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MODIFICATION TITLE:
MODELS OF SYSTEMS AFFECTED:
DESCRIPTION/JUSTIFICATION:

SP051 - AN/SMQ-11 UPGRADES - SPACE (SHIP)

The AN/SMQ-11 is an environmental satellite receiver/recorder that is used to receive remotely sensed data from the Defense Meteorological Satellite Program (DMSP) satellites, the National Oceanic and Atmospheric Administration (NOAA), National Polar Orbiting Environmental Satellite System (NPOESS), the Geostationary Orbiting Environment: Satellites (GOES), Low Resolution Weather Facsimile (WEFAX) and the GEOSAT Follow-On (GFO). The upgrade will allow the system to receive and preprocess additional environmental satellites, comply with open systems architecture standards and provide for antenna replacement

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES

FINANCIAL PLAN: (\$ in millions)

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																								
PROCUREMENT:																								
Kit Quantity																								
Installation Kits																								
Installation Kits Nonrecurring																								
Equipment											VAR	2.1	VAR	1.2	VAR	1.3	VAR	1.4	VAR	1.5	CONT		VAR	7.5
Equipment Nonrecurring																								
Engineering Change Orders																								
Data																								
Training Equipment																								
Support Equipment																								
Other																								
Interim Contractor Support																								
Installation of Hardware*	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	30	1.0	30	1.1	30	1.8	30	1.4	30	1.1	0	0.0	150	6.4
PRIOR YR EQUIP																							0	0.0
FY 95 EQUIP																							0	0.0
FY 96 EQUIP																							0	0.0
FY 97 EQUIP																							0	0.0
FY 98 EQUIP																							0	0.0
FY 99 EQUIP											30	1.0											30	1.0
FY 00 EQUIP													30	1.1									30	1.1
FY 01 EQUIP															30	1.8							30	1.8
FY 02 EQUIP																	30	1.4					30	1.4
FY 03 EQUIP																			30	1.1			30	1.1
FY TC EQUIP																							0	0.0
TOTAL INSTALLATION COST	0.0		0.0		0.0		0.0		0.0		1.0		1.1		1.8		1.4		1.1		0.0		6.4	
TOTAL PROCUREMENT COST	0.0		0.0		0.0		0.0		0.0		3.1		2.3		3.1		2.9		2.6		0.0		13.9	

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME: VAR

PROCUREMENT LEADTIME: VAR

CONTRACT DATES:

FY 1996:

FY 1997:

FY 1998:

FY 1999:

VAR

DELIVERY DATES:

FY 1996:

FY 1997:

FY 1998:

FY 1999:

VAR

INSTALLATION SCHEDULE:

	FY 97				FY 98				FY 99			
PY	1	2	3	4	1	2	3	4	1	2	3	4
INPUT									7	7	8	8
OUTPUT									7	7	8	8

INSTALLATION SCHEDULE:

	FY 00				FY 01				FY 02				FY 03				TC	TOTAL
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
INPUT	7	7	8	8	7	7	8	8	7	7	8	8	7	7	8	8		150
OUTPUT	7	7	8	8	7	7	8	8	7	7	8	8	7	7	8	8		150

* Quantities reflect platforms.

MODIFICATION TITLE:
 MODELS OF SYSTEMS AFFECTED:
 DESCRIPTION/JUSTIFICATION:

SP051 - AN/SMQ-11 UPGRADES - SPACE (SHORE)

The AN/SMQ-11 is an environmental satellite receiver/recorder that is used to receive remotely sensed data from the Defense Meteorological Satellite Program (DMSP) satellites, the National Oceanic and Atmospheric Administration (NOAA), National Polar Orbiting Environmental Satellite System (NPOESS), the Geostationary Orbiting Environment: Satellites (GOES), Low Resolution Weather Facsimile (WEFAX) and the GEOSAT Follow-On (GFO). The upgrade will allow the system to receive and preprocess additional environmental satellites, comply with open systems architecture standards and provide for antenna replacement

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES

FINANCIAL PLAN: (\$ in millions)

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																								
PROCUREMENT:																								
Kit Quantity																								
Installation Kits																								
Installation Kits Nonrecurring																								
Equipment									VAR	0.9	VAR	2.1	VAR	1.3	VAR	1.3	VAR	1.4	VAR	1.5	CONT		VAR	8.6
Equipment Nonrecurring																								
Engineering Change Orders																								
Data																								
Training Equipment																								
Support Equipment																								
Other																								
Interim Contractor Support																								
Installation of Hardware*	0	0.0	0	0.0	0	0.0	0	0.0	33	0.6	33	0.6	33	0.9	33	0.8	33	0.7	33	0.8	0	0.0	198	4.4
PRIOR YR EQUIP																							0	0.0
FY 95 EQUIP																							0	0.0
FY 96 EQUIP																							0	0.0
FY 97 EQUIP																							0	0.0
FY 98 EQUIP									33	0.6													33	0.6
FY 99 EQUIP											33	0.6											33	0.6
FY 00 EQUIP													33	0.9									33	0.9
FY 01 EQUIP															33	0.8							33	0.8
FY 02 EQUIP																	33	0.7					33	0.7
FY 03 EQUIP																			33	0.8			33	0.8
FY TC EQUIP																							0	0.0
TOTAL INSTALLATION COST	0.0		0.0		0.0		0.0		0.6		0.6		0.9		0.8		0.7		0.8		0.0		4.4	
TOTAL PROCUREMENT COST	0.0		0.0		0.0		0.0		1.6		2.7		2.2		2.1		2.1		2.3		0.0		13.0	
METHOD OF IMPLEMENTATION:	ADMINISTRATIVE LEADTIME:										VAR		PROCUREMENT LEADTIME:										VAR	

CONTRACT DATES:

FY 1996:

FY 1997:

FY 1998:

VAR

FY 1999:

VAR

DELIVERY DATES:

FY 1996:

FY 1997:

FY 1998:

VAR

FY 1999:

VAR

INSTALLATION SCHEDULE:

	FY 97				FY 98				FY 99			
PY	1	2	3	4	1	2	3	4	1	2	3	4
INPUT					8	8	8	9	8	8	8	9
OUTPUT					8	8	8	9	8	8	8	9

INSTALLATION SCHEDULE:

	FY 00				FY 01				FY 02				FY 03				TC	TOTAL
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
INPUT	8	8	8	9	8	8	8	9	8	8	8	9	8	8	8	9		198
OUTPUT	8	8	8	9	8	8	8	9	8	8	8	9	8	8	8	9		198

* Quantities reflect shore sites.

P-1 SHOPPING LIST
 ITEM NO. PAGE NO.
 133 6

P-3A Exhibit
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Feb-98

MODIFICATION TITLE:
 MODELS OF SYSTEMS AFFECTED:
 DESCRIPTION/JUSTIFICATION:

SP115 - MINI-RAWIN SYSTEM UPGRADES (SHIP)

THE MRS IS A PORTABLE COMMERCIAL OFF-THE-SHELF (COTS) UPPER AIR SOUNDING SYSTEM USED TO MEASURE PRESSURE, TEMPERATURE, HUMIDITY, WIND SPEED AND DIRECTION FROM THE SURFACE TO THE LOWER STRATOSPHERE. THE UPGRADE WILL ENABLE USE OF THE GLOBAL POSITIONING SYSTEM (GPS).

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES

FINANCIAL PLAN: (\$ in millions)

	<u>PY</u>		<u>FY 95</u>		<u>FY 96</u>		<u>FY 97</u>		<u>FY 98</u>		<u>FY 99</u>		<u>FY 00</u>		<u>FY 01</u>		<u>FY 02</u>		<u>FY 03</u>		<u>TC</u>		<u>Total</u>	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																								
PROCUREMENT:																								
Kit Quantity																								
Installation Kits																								
Installation Kits Nonrecurring																								
Equipment					28	0.4																	28	0.4
Equipment Nonrecurring																								
Engineering Change Orders																								
Data																								
Training Equipment																								
Support Equipment																								
Other																								
Interim Contractor Support																								
Installation of Hardware*	0	0.0	0	0.0	0	0.0	28	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	28	0.1
PRIOR YR EQUIP																							0	0.0
FY 95 EQUIP																							0	0.0
FY 96 EQUIP							28	0.1															28	0.1
FY 97 EQUIP																							0	0.0
FY 98 EQUIP																							0	0.0
FY 99 EQUIP																							0	0.0
FY 00 EQUIP																							0	0.0
FY 01 EQUIP																							0	0.0
FY 02 EQUIP																							0	0.0
FY 03 EQUIP																							0	0.0
FY TC EQUIP																							0	0.0
TOTAL INSTALLATION COST		0.0		0.0		0.0		0.1		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.1
TOTAL PROCUREMENT COST		0.0		0.0		0.4		0.1		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.5

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME: 3 MONTHS

PROCUREMENT LEADTIME: 3 MONTHS

CONTRACT DATES:

FY 1996: Nov-96

FY 1997:

FY 1998:

FY 1999:

DELIVERY DATES:

FY 1996: May-97

FY 1997:

FY 1998:

FY 1999:

INSTALLATION SCHEDULE:

<u>PY</u>	<u>FY 97</u>				<u>FY 98</u>				<u>FY 99</u>			
	1	2	3	4	1	2	3	4	1	2	3	4

INPUT

14 14

OUTPUT

14 14

INSTALLATION SCHEDULE:

	<u>FY 00</u>				<u>FY 01</u>				<u>FY 02</u>				<u>FY 03</u>				<u>TC</u>	<u>TOTAL</u>
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		

INPUT

28

OUTPUT

28

UNCLASSIFIED

Feb-98

MODIFICATION TITLE:
MODELS OF SYSTEMS AFFECTED:
DESCRIPTION/JUSTIFICATION:

SP115 - MINI-RAWIN SYSTEM UPGRADES (SHORE)

THE MRS IS A PORTABLE COMMERCIAL OFF-THE-SHELF (COTS) UPPER AIR SOUNDING SYSTEM USED TO MEASURE PRESSURE, TEMPERATURE, HUMIDITY, WIND SPEED AND DIRECTION FROM THE SURFACE TO THE LOWER STRATOSPHERE. THE UPGRADE WILL ENABLE USE OF THE GLOBAL POSITIONING SYSTEM (GPS).

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES

FINANCIAL PLAN: (\$ in millions)

	<u>PY</u>		<u>FY 95</u>		<u>FY 96</u>		<u>FY 97</u>		<u>FY 98</u>		<u>FY 99</u>		<u>FY 00</u>		<u>FY 01</u>		<u>FY 02</u>		<u>FY 03</u>		<u>TC</u>		<u>Total</u>	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																								
PROCUREMENT:																								
Kit Quantity																								
Installation Kits																								
Installation Kits Nonrecurring																								
Equipment					32*	0.4	68*	0.9															100*	1.3
Equipment Nonrecurring																								
Engineering Change Orders																								
Data																								
Training Equipment																								
Support Equipment																								
Other																								
Interim Contractor Support																								
Installation of Hardware*	0	0.0	0	0.0	0	0.0	47	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	47	0.2
PRIOR YR EQUIP																							0	0.0
FY 95 EQUIP																							0	0.0
FY 96 EQUIP							47	0.2															47	0.2
FY 97 EQUIP																							0	0.0
FY 98 EQUIP																							0	0.0
FY 99 EQUIP																							0	0.0
FY 00 EQUIP																							0	0.0
FY 01 EQUIP																							0	0.0
FY 02 EQUIP																							0	0.0
FY 03 EQUIP																							0	0.0
FY TC EQUIP																							0	0.0
TOTAL INSTALLATION COST		0.0		0.0		0.0		0.2		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.2
TOTAL PROCUREMENT COST		0.0		0.0		0.4		1.1		0.0		0.0		0.0		0.0		0.0		0.0		0.0		1.5

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME: 3 MONTHS

PROCUREMENT LEADTIME: 3 MONTHS

CONTRACT DATES:

FY 1996: Nov-96

FY 1997: Dec-96

FY 1998:

FY 1999:

DELIVERY DATES:

FY 1996: May-97

FY 1997: Jun-97

FY 1998:

FY 1999:

INSTALLATION SCHEDULE:

<u>PY</u>	<u>FY 97</u>				<u>FY 98</u>				<u>FY 99</u>			
	1	2	3	4	1	2	3	4	1	2	3	4

INPUT

25 22

OUTPUT

25 22

INSTALLATION SCHEDULE:

	<u>FY 00</u>				<u>FY 01</u>				<u>FY 02</u>				<u>FY 03</u>				<u>TC</u>		<u>TOTAL</u>	
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				

INPUT

47

OUTPUT

47

* 53 UNITS ARE FOR MOBILE TEAMS AND REQUIRE NO INSTALLATION.

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P-3A Exhibit
UNCLASSIFIED

UNCLASSIFIED

Feb-98

MODIFICATION TITLE:
 MODELS OF SYSTEMS AFFECTED:
 DESCRIPTION/JUSTIFICATION:

AUTOMATED SURFACE OBSERVING SYSTEM (ASOS) (SHORE)

ASOS IS AN AUTOMATIC SYSTEM TO SENSE, COLLECT, DISPLAY AND DISSEMINATE REAL TIME METEOROLOGICAL INFORMATION AT BOTH NAVY
 AND MARINE CORPS AIR STATIONS AND REMOTE SITES SUCH AS WEAPON RANGES AND ORT FACILITIES.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES

FINANCIAL PLAN: (\$ in millions)

	<u>PY</u>		<u>FY 95</u>		<u>FY 96</u>		<u>FY 97</u>		<u>FY 98</u>		<u>FY 99</u>		<u>FY 00</u>		<u>FY 01</u>		<u>FY 02</u>		<u>FY 03</u>		<u>TC</u>		<u>Total</u>	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																								
PROCUREMENT:																								
Kit Quantity																								
Installation Kits																								
Installation Kits Nonrecurring																								
Equipment	18	3.2	19	3.8	16	3.4																	53	10.4
Equipment Nonrecurring																								
Engineering Change Orders																								
Data																								
Training Equipment																								
Support Equipment																								
Other																								
Interim Contractor Support																								
Installation of Hardware*	3	0.0	24	0.4	19	0.5	7	0.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	53	1.2
PRIOR YR EQUIP	3		15	0.3																			18	0.3
FY 95 EQUIP			9	0.1	10	0.3																	19	0.4
FY 96 EQUIP					9	0.2	7	0.3															16	0.5
FY 97 EQUIP																							0	0
FY 98 EQUIP																							0	0
FY 99 EQUIP																							0	0
FY 00 EQUIP																							0	0
FY 01 EQUIP																							0	0
FY 02 EQUIP																							0	0
FY 03 EQUIP																							0	0
FY TC EQUIP																							0	0
TOTAL INSTALLATION COST		0.0		0.4		0.5		0.3		0.0		0.0		0.0		0.0		0.0		0.0		0.0	0	1.2
TOTAL PROCUREMENT COST		3.2		4.2		3.9		0.3		0.0		0.0		0.0		0.0		0.0		0.0		0.0	0	11.6

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME: 1 MONTH

PROCUREMENT LEADTIME: 8 MONTHS

CONTRACT DATES:

FY 1996: Nov-95

FY 1997:

FY 1998:

FY 1999:

DELIVERY DATES:

FY 1996: Aug-96

FY 1997:

FY 1998:

FY 1999:

INSTALLATION SCHEDULE:

	<u>FY 97</u>				<u>FY 98</u>				<u>FY 99</u>			
PY	1	2	3	4	1	2	3	4	1	2	3	4

INPUT

46 3 2 2

OUTPUT

46 2 2 1 1 1

INSTALLATION SCHEDULE:

	<u>FY 00</u>				<u>FY 01</u>				<u>FY 02</u>				<u>FY 03</u>				<u>TC</u>	<u>TOTAL</u>
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		

INPUT

53

OUTPUT

53

MODIFICATION TITLE:
 MODELS OF SYSTEMS AFFECTED:
 DESCRIPTION/JUSTIFICATION:

SP190 - TACTICAL ENVIRONMENTAL SUPPORT SYSTEM (TESS) UPGRADE (SHIP)

TESS UPGRADE PROCURES TERMINALS, INPUT/OUTPUT CONTROL DEVICES, CPUs AND BACK PLANES TO REPLACE ORIGINAL EQUIPMENT FOR BLOCK UPGRADES ON 30 PLATFORMS. ASSOCIATED SOFTWARE UPGRADES ARE ALSO REQUIRED.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES

FINANCIAL PLAN: (\$ in millions)

	<u>PY</u>		<u>FY 95</u>		<u>FY 96</u>		<u>FY 97</u>		<u>FY 98</u>		<u>FY 99</u>		<u>FY 00</u>		<u>FY 01</u>		<u>FY 02</u>		<u>FY 03</u>		<u>TC</u>		<u>Total</u>	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																								
PROCUREMENT:																								
Kit Quantity																								
Installation Kits																								
Installation Kits Nonrecurring																								
Equipment					VAR	3.8	VAR	3.6	VAR	4.7	VAR	4.3	VAR	4.4	VAR	4.4	VAR	4.5	VAR	4.6	CONT		VAR	34.3
Equipment Nonrecurring																								
Engineering Change Orders																								
Data																								
Training Equipment																								
Support Equipment																								
Other																								
Interim Contractor Support																								
Installation of Hardware*	0	0.0	0	0.0	27	1.0	27	1.3	30	2.3	30	2.7	30	2.7	30	2.5	30	2.8	30	3.0	0	0.0	234	18.3
PRIOR YR EQUIP																							0	0.0
FY 95 EQUIP																							0	0.0
FY 96 EQUIP					27	1.0																	27	1.0
FY 97 EQUIP							27	1.3															27	1.3
FY 98 EQUIP									30	2.3													30	2.3
FY 99 EQUIP											30	2.7											30	2.7
FY 00 EQUIP													30	2.7									30	2.7
FY 01 EQUIP															30	2.5							30	2.5
FY 02 EQUIP																	30	2.8					30	2.8
FY 03 EQUIP																			30	3.0			30	3.0
FY TC EQUIP																							0	0.0
TOTAL INSTALLATION COST		0.0		0.0		1.0		1.3		2.3		2.7		2.7		2.5		2.8		3.0		0.0		18.3
TOTAL PROCUREMENT COST		0.0		0.0		4.8		4.9		7.0		7.0		7.1		6.9		7.3		7.6		0.0		52.6

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME: VAR

PROCUREMENT LEADTIME: VAR

CONTRACT DATES: FY 1996: VAR FY 1997: VAR FY 1998: VAR FY 1999: VAR

DELIVERY DATES: FY 1996: VAR FY 1997: VAR FY 1998: VAR FY 1999: VAR

INSTALLATION SCHEDULE:	<u>PY</u>	<u>FY 97</u>				<u>FY 98</u>				<u>FY 99</u>				<u>FY 00</u>				<u>FY 01</u>				<u>FY 02</u>				<u>FY 03</u>				<u>TC</u>	<u>TOTAL</u>
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
INPUT	27	6	7	7	7	7	7	8	8	7	7	8	8					7	7	8	8	7	7	8	8						234
OUTPUT	27	6	7	7	7	7	7	8	8	7	7	8	8					7	7	8	8	7	7	8	8						234

* Quantities reflect platforms.

* PY and FY95 exhibits included NITES. NITES units are not represented.

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 ITEM NO. PAGE NO.
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P-3A Exhibit
 UNCLASSIFIED

MODIFICATION TITLE:
 MODELS OF SYSTEMS AFFECTED:
 DESCRIPTION/JUSTIFICATION:

SP190 - TACTICAL ENVIRONMENTAL SUPPORT SYSTEM (TESS) UPGRADE (SHORE)

TESS UPGRADE PROCURES TERMINALS, INPUT/OUTPUT CONTROL DEVICES, CPUs AND BACK PLANES TO REPLACE ORIGINAL EQUIPMENT FOR BLOCK UPGRADES AT 33 SHORE SITES. ASSOCIATED SOFTWARE UPGRADES ARE ALSO REQUIRED.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES

FINANCIAL PLAN: (\$ in millions)

	<u>PY</u>		<u>FY 95</u>		<u>FY 96</u>		<u>FY 97</u>		<u>FY 98</u>		<u>FY 99</u>		<u>FY 00</u>		<u>FY 01</u>		<u>FY 02</u>		<u>FY 03</u>		<u>TC</u>		<u>Total</u>	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																								
PROCUREMENT:																								
Kit Quantity																								
Installation Kits																								
Installation Kits Nonrecurring																								
Equipment					VAR	4.5	VAR	3.6	VAR	3.0	VAR	7.0	VAR	6.4	VAR	6.5	VAR	6.6	VAR	6.9	CONT		VAR	44.5
Equipment Nonrecurring																								
Engineering Change Orders																								
Data																								
Training Equipment																								
Support Equipment																								
Other																								
Interim Contractor Support																								
Installation of Hardware*	0	0.0	0	0.0	49	1.3	49	1.4	49	0.6	49	0.5	49	0.5	49	0.5	49	0.7	49	0.8	0	0.0	392	6.3
PRIOR YR EQUIP																							0	0.0
FY 95 EQUIP																							0	0.0
FY 96 EQUIP					49	1.3																	49	1.3
FY 97 EQUIP							49	1.4															49	1.4
FY 98 EQUIP									49	0.6													49	0.6
FY 99 EQUIP											49	0.5											49	0.5
FY 00 EQUIP													49	0.5									49	0.5
FY 01 EQUIP															49	0.5							49	0.5
FY 02 EQUIP																	49	0.7					49	0.7
FY 03 EQUIP																			49	0.8			49	0.8
FY TC EQUIP																							0	0.0
TOTAL INSTALLATION COST		0.0		0.0		1.3		1.4		0.6		0.5		0.5		0.5		0.7		0.8		0.0		6.3
TOTAL PROCUREMENT COST		0.0		0.0		5.8		5.0		3.6		7.5		6.9		7.0		7.3		7.7		0.0		50.8

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME: VAR

PROCUREMENT LEADTIME: VAR

CONTRACT DATES:

FY 1996: VAR

FY 1997: VAR

FY 1998: VAR

FY 1999: VAR

DELIVERY DATES:

FY 1996: VAR

FY 1997: VAR

FY 1998: VAR

FY 1999: VAR

INSTALLATION SCHEDULE:

	<u>PY</u>	<u>FY 97</u>				<u>FY 98</u>				<u>FY 99</u>			
		1	2	3	4	1	2	3	4	1	2	3	4
INPUT	49	12	12	12	13	12	12	12	13	12	12	12	13
OUTPUT	49	12	12	12	13	12	12	12	13	12	12	12	13

INSTALLATION SCHEDULE:

	<u>FY 00</u>				<u>FY 01</u>				<u>FY 02</u>				<u>FY 03</u>				<u>TC</u>	<u>TOTAL</u>
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
INPUT	12	12	12	13	12	12	12	13	12	12	12	13	12	12	12	13		392
OUTPUT	12	12	12	13	12	12	12	13	12	12	12	13	12	12	12	13		392

* Quantities reflect shore sites. Some sites require dual systems.

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 ITEM NO. PAGE NO.
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P-3A Exhibit
 UNCLASSIFIED

MODIFICATION TITLE:
 MODELS OF SYSTEMS AFFECTED:
 DESCRIPTION/JUSTIFICATION:

SP200 - SHIPBOARD METEOROLOGICAL AND OCEANOGRAPHIC OBSERVING SYSTEM (SMOOS P3I) - MORIAH (SHIP)

Shipboard Meteorological and Oceanographic Observing System (SMOOS) P3I will provide Upgrades to existing suites to add smaller sensors such as radiometers. MORIAH is a major block upgrade consisting of shipboard environmental sensors, automated data acquisition and processing system, multiple system interface and displays. MORIAH will be installed on 260 platforms

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES

FINANCIAL PLAN: (\$ in millions)

	<u>PY</u>		<u>FY 95</u>		<u>FY 96</u>		<u>FY 97</u>		<u>FY 98</u>		<u>FY 99</u>		<u>FY 00</u>		<u>FY 01</u>		<u>FY 02</u>		<u>FY 03</u>		<u>TC</u>		<u>Total</u>	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																								
PROCUREMENT:																								
Kit Quantity																								
Installation Kits																								
Installation Kits Nonrecurring																								
Equipment					VAR*	0.2					VAR	0.7	VAR	5.2	VAR	5.5	VAR	5.9	VAR	6.2	CONT		VAR	23.7
Equipment Nonrecurring																								
Engineering Change Orders																								
Data																								
Training Equipment																								
Support Equipment																								
Other																								
Interim Contractor Support																								
Installation of Hardware*	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	0.0	59	0.5	69	0.5	69	1.0	60	1.0	0	0.0	260	3.0
PRIOR YR EQUIP																							0	0.0
FY 95 EQUIP																							0	0.0
FY 96 EQUIP																							0	0.0
FY 97 EQUIP																							0	0.0
FY 98 EQUIP																							0	0.0
FY 99 EQUIP											3	0.03											3	0.0
FY 00 EQUIP													59	0.5									59	0.5
FY 01 EQUIP															69	0.5							69	0.5
FY 02 EQUIP																	69	1.0					69	1.0
FY 03 EQUIP																			60	1.0			60	1.0
FY TC EQUIP																							0	0.0
TOTAL INSTALLATION COST		0.0		0.0		0.0		0.0		0.0		0.0		0.5		0.5		1.0		1.0		0.0		3.0
TOTAL PROCUREMENT COST		0.0		0.0		0.2		0.0		0.0		0.7		5.7		6.0		6.9		7.2		0.0		26.7

ADMINISTRATIVE LEADTIME: VAR

PROCUREMENT LEADTIME: VAR

CONTRACT DATES: FY 1996: VAR FY 1997: FY 1998: FY 1999: VAR

DELIVERY DATES: FY 1996: VAR FY 1997: FY 1998: FY 1999: VAR

INSTALLATION SCHEDULE:	<u>PY</u>	<u>FY 97</u>				<u>FY 98</u>				<u>FY 99</u>			
		1	2	3	4	1	2	3	4	1	2	3	4
INPUT												3	
OUTPUT											1	2	

INSTALLATION SCHEDULE:	<u>FY 00</u>				<u>FY 01</u>				<u>FY 02</u>				<u>FY 03</u>				<u>TC</u>	<u>TOTAL</u>
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
INPUT	14	15	15	15	17	17	17	18	17	17	17	18	15	15	15	15		260
OUTPUT	14	15	15	15	17	17	17	18	17	17	17	18	15	15	15	15		260

* FY96 units required no installation.

** I/O quantities reflect platforms.

UNCLASSIFIED

Feb-98

MODIFICATION TITLE:
 MODELS OF SYSTEMS AFFECTED:
 DESCRIPTION/JUSTIFICATION:

SP500 - SUPPLEMENTAL WEATHER RADAR (SWR) (SHORE)

The Supplemental Weather Radar (SWR) is a small, light weight, COTS Doppler radar system that will be located at sites where NEXRAD coverage is not available to Navy/USMC activities. The SWR will provide real-time surveillance and advance warning of potentially severe weather phenomena that are developing near or moving towards USN and USMC units.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES

FINANCIAL PLAN: (\$ in millions)

	<u>PY</u>		<u>FY 95</u>		<u>FY 96</u>		<u>FY 97</u>		<u>FY 98</u>		<u>FY 99</u>		<u>FY 00</u>		<u>FY 01</u>		<u>FY 02</u>		<u>FY 03</u>		<u>TC</u>		<u>Total</u>	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																								
PROCUREMENT:																								
Kit Quantity																								
Installation Kits																								
Installation Kits Nonrecurring																								
Equipment					1	1.0	3	2.3			5	3.5											9	6.8
Equipment Nonrecurring																								
Engineering Change Orders																								
Data																								
Training Equipment																								
Support Equipment																								
Other																								
Interim Contractor Support																								
Installation of Hardware*	0	0.0	0	0.0	0	0.0	0	0.0	4	0.1	5	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	9	0.2
PRIOR YR EQUIP																							0	0.0
FY 95 EQUIP																							0	0.0
FY 96 EQUIP									1	0.02													1	0.0
FY 97 EQUIP									3	0.07													3	0.1
FY 98 EQUIP																							0	0.0
FY 99 EQUIP											5	0.1											5	0.1
FY 00 EQUIP																							0	0.0
FY 01 EQUIP																							0	0.0
FY 02 EQUIP																							0	0.0
FY 03 EQUIP																							0	0.0
FY TC EQUIP																							0	0.0
TOTAL INSTALLATION COST	0.0		0.0		0.0		0.0		0.1		0.1		0.0		0.0		0.0		0.0		0.0		0.2	
TOTAL PROCUREMENT COST	0.0		0.0		1.0		2.3		0.1		3.6		0.0		0.0		0.0		0.0		0.0		7.0	

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME: 2 MONTHS*

PROCUREMENT LEADTIME: 4 MONTHS*

CONTRACT DATES: FY 1996: Dec-96 FY 1997: Aug-97 FY 1998: FY 1999: Nov-98

DELIVERY DATES: FY 1996: Feb-98 FY 1997: Mar-98 FY 1998: FY 1999: Mar-99

	<u>FY 97</u>				<u>FY 98</u>				<u>FY 99</u>																
INSTALLATION SCHEDULE:	<u>PY</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>												
INPUT							2	2			1	3	1												
OUTPUT								2	2			1	3												
	<u>FY 00</u>				<u>FY 01</u>				<u>FY 02</u>				<u>FY 03</u>												
INSTALLATION SCHEDULE:	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>TC</u>					<u>TOTAL</u>			
INPUT																							9		
OUTPUT	1																						9		

* Contract protest occurred with the FY96 and FY97 buys which delayed contract award and delivery dates. No problem in FY99.

P-1 SHOPPING LIST
 ITEM NO. PAGE NO.
 133 13

P-3A Exhibit
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MODIFICATION TITLE:
 MODELS OF SYSTEMS AFFECTED:
 DESCRIPTION/JUSTIFICATION:

SP550 - AVIATION SAFETY SYSTEM UPGRADES (SHORE)

Aviation Safety System Upgrades are GOTS/COTS hardware and associated software upgrades to installed multi-agency procured safety of flight equipment, such as NEXRAD and ASOS, installed at 50 Navy and Marine Corps Air facilities worldwide.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES

FINANCIAL PLAN: (\$ in millions)

	<u>PY</u>		<u>FY 95</u>		<u>FY 96</u>		<u>FY 97</u>		<u>FY 98</u>		<u>FY 99</u>		<u>FY 00</u>		<u>FY 01</u>		<u>FY 02</u>		<u>FY 03</u>		<u>TC</u>		<u>Total</u>	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																								
PROCUREMENT:																								
Kit Quantity																								
Installation Kits																								
Installation Kits Nonrecurring																								
Equipment											VAR	1.0	VAR	1.1	VAR	1.2	VAR	1.4	VAR	1.4	CONT		VAR	6.2
Equipment Nonrecurring																								
Engineering Change Orders																								
Data																								
Training Equipment																								
Support Equipment																								
Other																								
Interim Contractor Support																								
Installation of Hardware*	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	50	0.1	50	0.1	50	0.1	50	0.1	50	0.1	0	0.0	250	0.5
PRIOR YR EQUIP																							0	0.0
FY 95 EQUIP																							0	0.0
FY 96 EQUIP																							0	0.0
FY 97 EQUIP																							0	0.0
FY 98 EQUIP																							0	0.0
FY 99 EQUIP											50	0.1											50	0.1
FY 00 EQUIP													50	0.1									50	0.1
FY 01 EQUIP															50	0.1							50	0.1
FY 02 EQUIP																	50	0.1					50	0.1
FY 03 EQUIP																			50	0.1			50	0.1
FY TC EQUIP																							0	0.0
TOTAL INSTALLATION COST		0.0		0.0		0.0		0.0		0.0		0.1		0.1		0.1		0.1		0.1		0.0		0.5
TOTAL PROCUREMENT COST		0.0		0.0		0.0		0.0		0.0		1.1		1.2		1.3		1.5		1.5		0.0		6.7

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME:

VAR

PROCUREMENT LEADTIME:

VAR

CONTRACT DATES:

FY 1996:

FY 1997:

FY 1998:

FY 1999:

VAR

DELIVERY DATES:

FY 1996:

FY 1997:

FY 1998:

FY 1999:

VAR

INSTALLATION SCHEDULE:

	<u>FY 97</u>				<u>FY 98</u>				<u>FY 99</u>				<u>FY 00</u>				<u>FY 01</u>				<u>FY 02</u>				<u>FY 03</u>				<u>TC</u>		<u>TOTAL</u>	
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
INPUT									12	12	13	13																				250
OUTPUT									12	12	13	13																				250
INSTALLATION SCHEDULE:	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4												
INPUT	12	12	13	13	12	12	13	13	12	12	13	13	12	12	13	13	12	12	13	13												
OUTPUT	12	12	13	13	12	12	13	13	12	12	13	13	12	12	13	13	12	12	13	13												

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BUDGET ITEM JUSTIFICATION SHEET P-40							DATE: February 1998					
APPROPRIATION/BUDGET ACTIVITY-3 OTHER PROCUREMENT, NAVY/AVIATION SUPPORT EQUIPMENT							P-1 ITEM NOMENCLATURE OTHER PHOTOGRAPHIC EQUIPMENT - Y3SX					
Program Element for Code B Items: BA 3 - AVIATION SUPPORT EQUIPMENT							Other Related Program Elements					
	Prior Years	ID Code	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total
QUANTITY												
COST (In Millions)	66.626		0.7	0.7	0.8	0.6	0.6	0.6	0.6	0.6	CONT	CONT
<p>The Naval Air Systems Command is tasked to fund transition of CV photographic labs from traditional film technology to digital imagery technology (CNO Memo Ser 09B/2U2501983 of 23 Oct 92 applies). The CV main photographic lab supports the full visual imaging program afloat to include: Carrier Intelligence Center (CVIC) support (Bomb Damage Assessment (BDA) and target imagery), incidents and accidents at sea, medical media, copy and reproduction, investigation, aerial and surface surveillance, combat camera, safety, training and Public Affairs Office (PAO).</p> <p>Electronic/digital imagery acquisition media is rapidly expanding (ATARS, TAMPS, JSIPS). It is imperative the CV photo lab be able to interface with the new electronic media. Hard copy imagery is required in the documentation of real world events (drug interdiction program, humanitarian relief efforts, shipboard and flight operational documentation). This imagery is used at all levels within DoD including CNO, SECNAV, JCS, National Military Command Center and the White House. Hard copy photographs are used in the decision making process by the Fleet and Battle Group Commanders and directly impacts the overall Navy mission. Digital imagery can be quickly disseminated via shipboard communication systems to support decision makers at the local, theater, and global levels (CVBG, CINC and JCS).</p> <p>Digital technology will generate less environmentally damaging effluents than traditional photographic processes and will have no impact on shipboard water consumption. Electronic imaging is less manpower intensive and requires less maintenance and overall support resources than traditional mechanical hardware.</p> <p>In order to fully utilize the film technology employed on CV's, a two phase transition plan will be implemented. An interim photo lab will be installed to interface with existing film technology which will allow the CV to maintain 100% mission capability until final digital installation. LANT and PAC deployment schedules and pier-side availability will determine the installation schedule. Phase II digital capability began in late FY95/early 96 and will be completed in FY03.</p> <p>Digital Photo Lab Phase I includes one hard-mounted electronic work station, one portable backup workstation, one high capacity digital printer, three digital hand-held cameras, and the software to run this equipment. Digital Photo Lab Phase II adds DPL Phase II workstations (comprised of two hard-mounted electronic work stations and one portable backup workstation), one large format digital printer, one high resolution printer, a LAN server to tie them together, eight digital color cameras, and some miscellaneous small equipment/software required to tie Phase I and Phase II labs together. Phase I equipment installations were completed in FY95. Phase II began in FY95 and continues beyond the FYDP.</p>												

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WEAPONS SYSTEM COST ANALYSIS P-5						Weapon System						DATE: February 1998			
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT NAVY BA-3 - AVIATION SUPPORT EQUIPMENT						ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD OTHER PHOTOGRAPHIC EQUIPMENT Y3SX								
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS												
			Prior Years	FY 1996			FY 1997			FY 1998			FY 1999		
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
SX008	PHOTO EQUIPMENT UNDER \$100K	A				142			159			11			11
SX019	DIGITAL COLOR PRINTER	A		2	66	132	5	27	135			0			0
SX020	ELECTRONIC WORKSTATION SYSTEM	A		1	136	136	1	140	140	2	140	280	2	140	280
SX021	DIGITAL SLR COLOR CAMERA	A				0			0	10	27	270	3	26	78
SX830	PRODUCTION ENGINEERING & LOGISTICS SUPPORT	A	468			42			129			69			41
SX900	INSTALLATION (NON-FMP)	A	337			250			147			154			213
	VARIOUS OTHER COSTS, FY 95 & PRIOR *		65,821												
			* The amount identified against this cost element reflects total prior year funding associated with cost elements no longer financed in FY 1996 and beyond.												
			66,626			702			710			784			623

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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System		A. DATE February 1998			
B. APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT NAVY BA 3 - AVIATION SUPPORT EQUIPMENT					C. P-1 ITEM NOMENCLATURE OTHER PHOTOGRAPHIC EQUIPMENT				SUBHEAD Y3SX	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
DIGITAL COLOR PRINTER										
FY 1996	2	66*	NRAD, Philadelphia	Apr-96	C/MIPR/FP	XEROX, McLean, VA	Jun-96	Sep-96	YES	N/A
FY 1997	5	27.2*	NRAD, Philadelphia	Apr-97	C/MIPR/FP	TBD	Jun-97	Sep-97	YES	N/A
ELECTRONIC WORK- STATION SYSTEMS										
FY 1996	1	136.0	NRAD, Philadelphia	Apr-96	C/MIPR/FP	JE Cuesta, Philadelphia, PA	Jun-96	Sep-96	YES	N/A
FY 1997	1	140.0	NRAD, Philadelphia	Apr-97	C/MIPR/FP	TBD	Jun-97	Sep-97	YES	N/A
FY 1998	2	140.0	NRAD, Philadelphia	Apr-98	C/MIPR/FP	TBD	Jun-98	Sep-98	YES	N/A
FY 1999	2	140.0	NRAD, Philadelphia	Apr-99	C/MIPR/FP	TBD	Jun-99	Sep-99	YES	N/A
DIGITAL SLR COLOR CAMERA										
FY 1998	10	26.6	NRAD, Philadelphia	Apr-98	C/MIPR/FP	TBD	Jun-98	Sep-98	YES	N/A
FY 1999	3	25.9	NRAD, Philadelphia	Apr-99	C/MIPR/FP	TBD	Jun-99	Sep-99	YES	N/A
D. REMARKS										
* Variance in unit cost due to two different types of printers being procured.										

DD Form 2445, JUL 87		Previous editions are obsolete		P-1 SHOPPING LIST	
311 / 244	ITEM NO	134	PAGE	4	Exhibit P-21 Production Schedule

CLASSIFICATION: UNCLASSIFIED

P3A

INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED: CVs, CVNs, CNET, PNCLA

TYPE MODIFICATION:

MODIFICATION TITLE: Digital Photo Lab (Phase II)

DESCRIPTION/JUSTIFICATION:

Fund transition CV/CVN Photo Lab from traditional "wet" film to digital imagery. Phase II provides additional systems and capabilities above Phase I suites.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: (Phase I completed FY 95)

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN THOUSANDS)																								
RD&E																							0	0
PROCUREMENT																								
INSTALLATION KITS	2	391			1	410	1	435	2	557	2	369	1	325	1	424	1	431	1	449			12	3,791
INSTALLATION KITS - UNIT COST						410		435		279		185		325		424		431		449				
INSTALLATION KITS NONRECURRING																								
EQUIPMENT																								
EQUIPMENT NONRECURRING																								
ENGINEERING CHANGE ORDERS																								
DATA																								
TRAINING EQUIPMENT																								
SUPPORT EQUIPMENT																								
FIELD ACTIVITY SUPPORT				468		42		128		73		41		62		84		84		77				1,059
OTHER																								
OTHER																								
INTERIM CONTRACTOR SUPPORT																								
INSTALL COST				337		250		147		154		213		220		113		117		121				1,672
TOTAL PROCUREMENT		391		805		702		710		784		623		607		621		632		647				6,522

CLASSIFICATION: **UNCLASSIFIED**

P3A (Continued) **INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEMS AFFECTED: CVs, CVNs, CNET, PNCLA MODIFICATION TITLE: Digital Photo Lab (Phase II)

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: _____

ADMINISTRATIVE LEADTIME: 3 Months

PRODUCTION LEADTIME: 3 Months

CONTRACT DATES: FY 1997: June 97

FY 1998: June 98

FY 1999: Jun 99

DELIVERY DATE: FY 1997: Sep 97

FY 1998: Sep 98

FY 1999: Sep 99

(\$ in Thousands)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
PRIOR YEARS																							0	.000
FY 1995 EQUIPMENT			2	.337																			2	.337
FY 1996 EQUIPMENT					1	.250																	1	.250
FY 1997 EQUIPMENT							1	.147															1	.147
FY 1998 EQUIPMENT									2	.154													2	.154
FY 1999 EQUIPMENT											2	.213											2	.213
FY 2000 EQUIPMENT													1	.220									1	.220
FY 2001 EQUIPMENT															1	.113							1	.113
FY 2002 EQUIPMENT																	1	.117					1	.117
FY 2003 EQUIPMENT																			1	.121			1	.121
TO COMPLETE																						CONT.		CONT.

INSTALLATION SCHEDULE:

	FY 1996 & Prior	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		TOTAL
In	3	0	0	0	1	0	0	0	2	0	0	0	2	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1		12
Out	3	0	0	0	1	0	0	0	2	0	0	0	2	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1		12

P-3A

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Exhibit P-20, Requirements Study				APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy/Aviation Support Equipment			DATE: February 1998	
P-1 ITEM NOMENCLATURE OTHER PHOTOGRAPHIC EQUIPMENT - Y3SX				Admin Leadtime (after Oct1): 8 mos			Prod Leadtime : 3 mos	
Digital Color Printer	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
Buy Summary	2	5	0	0	0	0	0	0
Unit Cost	66	27	0	0	0	0	0	0
Total Cost	132	136	0	0	0	0	0	0
Asset Dynamics								
Beginning Asset Position	0	2	7	7	7	7	7	7
Deliveries from all prior year funding	2	0	0	0	0	0	0	0
Deliveries from FY 1997 funding	0	5	0	0	0	0	0	0
Deliveries from FY 1998 funding	0	0	0	0	0	0	0	0
Deliveries from FY 1999 funding	0	0	0	0	0	0	0	0
Deliveries from subsequent years' funding	0	0	0	0	0	0	0	0
Other Gains	0	0	0	0	0	0	0	0
Combat Losses/Usage	0	0	0	0	0	0	0	0
Training Losses/Usage	0	0	0	0	0	0	0	0
Test Losses/Usage	0	0	0	0	0	0	0	0
Other Losses/Usage	0	0	0	0	0	0	0	0
Disposals/Retirements/Attritions/etc.	0	0	0	0	0	0	0	0
End of Year Asset Position	2	7	7	7	7	7	7	7
Inventory Objective or Current Authorized Allowance	15	15	15	15	15	15	15	15
Inventory Objective 15	Actual Training Expenditures	Other than Training Usage	Disposals (Vehicles/Other)	Vehicles Eligible for FY 1998 Replacement:	Aircraft: TOAI:			
Assets Rqd For Combat Loads:	FY 1996 thru XXXXX:	FY 1996 thru XXXXX:	FY 1996 thru XXXXX:	Vehicles Eligible for FY 1999 Replacement:	PAA: TAI			
WRM Rqmt:	FY 1995:	FY 1995:	FY 1995:	Vehicle Augment:	Attrition Res:			
Pipeline:	FY 1994:	FY 1994:	FY 1994:		BAI			
Other: 15	FY 1993:	FY 1993:	FY 1993:		Inactive Inv:			
TOTAL:					Storage:			
Remarks:								
Inventory objective of 15 equals:								
One printer per CV/CVN (1*12) 12								
One printer each at three shore stations (1*3) 3								
15								

P-1 SHOPPING LIST

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P-1 SHOPPING LIST

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Exhibit P-20, Requirements Study			APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy/Aviation Support Equipment				DATE: February 1998	
P-1 ITEM NOMENCLATURE OTHER PHOTOGRAPHIC EQUIPMENT - Y3SX			Admin Leadtime (after Oct1): 8 mos			Prod Leadtime : 3 mos		
Digital SLR Color Camera	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
Buy Summary	0	0	10	3	6	10	11	14
Unit Cost	0	0	27	26	25	25	24	19
Total Cost	0	0	266	78	148	245	262	270
Asset Dynamics								
Beginning Asset Position	64	64	64	63	55	50	49	49
Deliveries from all prior year funding	0	0	0	0	0	0	0	0
Deliveries from FY 1997 funding	0	0	0	0	0	0	0	0
Deliveries from FY 1998 funding	0	0	10	0	0	0	0	0
Deliveries from FY 1999 funding	0	0	0	3	0	0	0	0
Deliveries from subsequent years' funding	0	0	0	0	6	10	11	14
Other Gains	0	0	0	0	0	0	0	0
Combat Losses/Usage	0	0	0	0	0	0	0	0
Training Losses/Usage	0	0	0	0	0	0	0	0
Test Losses/Usage	0	0	0	0	0	0	0	0
Other Losses/Usage	0	0	0	0	0	0	0	0
Disposals/Retirements/Attritions/etc.	0	0	11	11	11	11	11	9
End of Year Asset Position	64	64	63	55	50	49	49	54
Inventory Objective or Current Authorized Allowance	108	108	108	108	108	108	108	108
Inventory Objective 108	Actual Training Expenditures	Other than Training Usage	Disposals (Vehicles/Other)	Vehicles Eligible for FY 1998 Replacement:	Aircraft: TOAI:			
Assets Rqd For Combat Loads:	FY 1996 thru XXXXX:	FY 1996 thru XXXXX:	FY 1996 thru XXXXX:	Vehicles Eligible for FY 1999 Replacement:	PAA: TAI			
WRM Rqmt:	FY 1995:	FY 1995:	FY 1995:	Vehicle Augment:	Attrition Res:			
Pipeline:	FY 1994:	FY 1994:	FY 1994:		BAI			
Other: 108	FY 1993:	FY 1993:	FY 1993:		Inactive Inv:			
TOTAL:					Storage:			
Remarks:								
Inventory objective equals: Nine cameras per CV/CVN (9*12) 108								

P-1 SHOPPING LIST

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BUDGET ITEM JUSTIFICATION SHEET P-40								DATE: February 1998				
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY							P-1 ITEM NOMENCLATURE AVIATION LIFE SUPPORT SYSTEMS					
Program Element for Code B Items: BA 3 AVIATION SUPPORT EQUIPMENT							Other Related Program Elements					
	Prior Years	ID Code	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total
QUANTITY												
COST (In Millions)	\$105.7		\$14.7	\$8.8	\$12.3	\$22.3	\$25.8	\$28.5	\$29.0	\$29.6	Cont.	Cont.
<p>This account provides for the acquisition, upgrade, and production support of aviation life support systems required for the personal safety and protection of aircrew against the hazards encountered in the aircraft operating environment and for safe recovery of downed aircrew.</p> <p>PRC-125 - SY010 -A Search and Rescue Wet Swimmer's Radio that provides a hands-off communications link to the Rescue helicopter. Inventory Objective (IO) is 1,180. Procurements: FY98 - 198 FY99 - 100</p> <p>KY-913 PROGRAM LOADER (PRC-112) - SY020 - Loads the pilot's and aircrew's identification code and preprogrammed frequencies into the PRC-112 radio. I.O. is 193. Procurements: FY97 - 50</p> <p>SURVIVAL RADIO - SY030 - Non-developmental acquisition to replace the PRC-90 and PRC-90-2 with a state of the art survival radio. This will be a non-combat radio to complement the PRQ-7 CSEL radio. Historically, the Navy has used the PRC-90 to complement the PRC-112, which the PRQ-7 will replace. Major off the shelf technology insertion will be the addition of COSPAS SARSAT 406 MHZ capability. The location of downed aircrew will now be known within 100 meters and 20 minutes of radio beacon activation thereby greatly reducing time to recover downed aircrew and increasing their probability of safe recovery. IO IS 20,000. Procurements: FY98 - 250 FY99 - 600</p> <p>PRC-112 UPGRADES - SY048 - Program to fix water intrusion and frequency problems in the basic PRC-112 radio. I.O. is 3676. Procurements: FY97 - 1676 FY98 - 2000</p>												

P-1 SHOPPING LIST

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BUDGET ITEM JUSTIFICATION SHEET P-40							DATE: February 1998					
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY							P-1 ITEM NOMENCLATURE AVIATION LIFE SUPPORT SYSTEMS					
Program Element for Code B Items: BA 3 AVIATION SUPPORT EQUIPMENT							Other Related Program Elements					
	Prior Years	ID Code	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total
QUANTITY												
COST (In Millions)	\$105.7		\$14.7	\$8.8	\$12.3	\$22.3	\$25.8	\$28.5	\$29.0	\$29.6	Cont.	Cont.
<p>COMBAT SURVIVOR EVADER LOCATOR - SY060 -(Joint Program, Air Force lead) A satellite and communications interface system that will be used by forward deployed aircrews for geopositioning and communications relay. IO is 9,000. Procurements: FY98 - 494 FY99 - 1896</p> <p>LASER EYE PROTECTION-SY080 -Laser Eye Protection Improvement Program (LEPIP) EDU-5/P Spectacles. This is a USN/USMC Abbreviated Acquisition Program (AAP). The EDU-5/P spectacles are designed to provide day and night multiple wavelength, low energy protection for fixed and rotary wing aircrew in a fixed, multi-wavelength laser threat environment. The spectacles are designed to cause minimal visual and physical encumbrance, and be compatible with current Navy Aviation Life Support Equipment (ALSE), aircraft visual displays and night vision systems. The EDU-5/P spectacles will replace the currently available FV2 laser spectacles which have performance limitations which include 1) day use only, 2) significant color perception distortion of the cockpit display or scene being viewed, 3) incompatibility with Chemical Biological Radiological (CBR) protective assembly, 4) incompatibility with night vision goggles (NVGs), 5) significant reduction of cockpit displays light levels, and 6) hot spot discomfort around the ears from the temple arms. In addition, the EDU-5/P spectacles provide seven (7) wavelength protection as opposed to five (5) wavelength protection provided by the FV2 spectacles. IO is 6400. Procurements: FY97 - 320</p> <p>-Joint Service Aircrew Low Energy Multiple Wavelength Advanced Laser Eye Protection Visor (JALEPV) Program. The JALEPV has been designated as a ACAT IVM Program. The Navy is the lead service for this program. The JALEPV is being developed to provide day and night multiple wavelength, low energy protection to address the needs of fixed and rotary wing aircrew in a fixed multiple wavelength laser threat environment. The visor is being developed for compatibility with current Army, and USN/USMC Aviation Life Support Equipment (ALSE) as well as cockpit displays, night vision, and fire control systems. IO is 1400. Procurements: FY99 - 217</p> <p>CWU-60/P-SY100 -An exposure suit for Carrier On-Board Delivery/Vertical On-Board Delivery (COD/VOD) aircrew. IO is 4,350. Procurements: FY97 - 93</p>												

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BUDGET ITEM JUSTIFICATION SHEET P-40							DATE: February 1998					
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY							P-1 ITEM NOMENCLATURE AVIATION LIFE SUPPORT SYSTEMS					
Program Element for Code B Items: BA 3 AVIATION SUPPORT EQUIPMENT							Other Related Program Elements					
	Prior Years	ID Code	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total
QUANTITY												
COST (In Millions)	\$105.7		\$14.7	\$8.8	\$12.3	\$22.3	\$25.8	\$28.5	\$29.0	\$29.6	Cont.	Cont.
<p>HELICOPTER EMERGENCY EGRESS DEVICE P3 (HEED P3I)-SY110 -An improved and smaller device than the current HEED. Provides improved performance, reliability, maintainability, and compatibility with aircrew life support and personal protective equipment. IO IS 6,000. Procurements: FY97 - 591</p> <p>AIRCREW INTEGRATED SURVIVAL/ARMOR PROTECTION (AISAP)-SY120 -An optimized vest/armor system with modularity for the mission specific requirements of combat helicopter aircrews. IO is 3,568. Procurements: FY98 - 1575 FY99 - 302</p> <p>PASSENGER AND TROOP SURVIVAL SYSTEM (PATSS) - SY130 -A system developed to provide personal flotation that is compatible with other protective, survival and combat equipment. IO is 8,652. Procurements: FY99 - 1863</p> <p>MINI-RAFT BACK PACK-SY150 -Constant wear emergency flotation platform for helicopter aircrewman. IO is 5,900. Procurements: FY97 - 80 FY99 - 285</p> <p>NAVY COMBAT EDGE (NCE)-SY170 -The NCE is an integrated aircrew flight ensemble designed to increase aircrew protection from the physiological hazards associated with high positive acceleration (+G) forces. During exposure to +G acceleration, blood pooling occurs in the lower portions of the body depriving the brain of an adequate supply of oxygenated blood and causing a loss of vision followed by loss of consciousness. The NCE provides enhanced acceleration protection through the use of Assisted Positive Pressure Breathing (APPB), a counter pressure vest and an anti-G garment. The NCE system consists of several individual components (HGU-87/P helmet and KMU-561 modification kit; MBU-24/P oxygen mask; CSU-21/P counter pressure vest; CRU-103/PG compression oxygen breathing regulator; CSU-20/P lower anti-G garment; and Anti-G valve). IO is 1,821. Procurements: FY97 - 147 FY98 - 330 FY99 - 237</p>												

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BUDGET ITEM JUSTIFICATION SHEET P-40								DATE: February 1998				
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY							P-1 ITEM NOMENCLATURE AVIATION LIFE SUPPORT SYSTEMS					
Program Element for Code B Items: BA 3 AVIATION SUPPORT EQUIPMENT							Other Related Program Elements					
	Prior Years	ID Code	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total
QUANTITY												
COST (In Millions)	\$105.7		\$14.7	\$8.8	\$12.3	\$22.3	\$25.8	\$28.5	\$29.0	\$29.6	Cont.	Cont.
<p>AMELIA - SY175 - An integrated aircrew flight ensemble which provides small and large aviators, including females, with new and/or upgraded systems to ensure safe and effective performance in Naval aircraft. IO is 1,200. Procurements: FY99 - 400</p> <p>NIGHT VISION DEVICES -SY210 -Night Vision Devices (NVD) are used by Rotary Wing, Fixed Wing, and TACAIR platforms as a situational awareness enhancement for night operations and are critical to mission success. IO is 1,000. Procurements: FY97 - 197 FY98 - 216 FY99 - 536</p> <p>LOW PROFILE FLOTATION COLLAR-SY220. -A flotation device for aircrews that is less bulky and better integrates with existing life support equipment aircrew stations. IO is 10,700. Procurements: FY97 - 2161 FY98 - 600 FY99 - 2350</p>												

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WEAPONS SYSTEM COST ANALYSIS P-5						Weapon System									DATE: February 1998	
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA 3 AVIATION SUPPORT EQUIPMENT						ID Code		35582 AVIATION LIFE SUPPORT SYSTEMS 43SY								
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS													
			Prior Years	FY 1996			FY 1997			FY 1998			FY 1999			
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	
SY010	PRC-125	A	226	0		0	0		0	198	2,000	396	100	2,200	220	
SY020	KY-913 PROGRAM LOADER (PRC-112)	A	275	0		0	50	2,000	100	0		0	0		0	
SY030	SURVIVAL RADIO	B	0	0		0	0		0	250	1,200	300	600	1,050	630	
SY045	PRC-112 P3I (GPS)	A	3,513	0		0	0		0	0		0	0		0	
SY046	PRC-112 P3I (GPS) INTERROGATOR	A	0	12	49,583	595	0		0	0		0	0		0	
SY048	PRC-112 UPGRADES	A	0	0		0	1,676	250	419	2,000	250	500	0		0	
SY060	COMBAT SURVIVOR EVADER LOCATOR	B	0	0		0	0		0	494	7,000	3,458	1,896	5,800	10,997	
SY080	LASER EYE PROTECTION	B	0	0		0	320	1,400	448	0	0	0	217	1,747	379	
SY100	CWU-60/P	A	0	4,257	700	2,980	93	700	65	0		0	0		0	
SY110	HEED P3I	A	0	5,409	402	2,172	591	254	150	0		0	0		0	
SY120	AISAP (BODY ARMOR)	A	1,239	841	1,240	1,043	0		0	1,575	1,100	1,733	302	1,250	378	
SY130	PATSS	A	0	4,238	186	787	0		0	0	0	0	1,863	215	401	
SY140	PAESS	A	673	1000	682	682	0		0	0	0	0	0		0	
SY145	EXTREME COLD WEATHER SURVIVAL KIT	A	0	147	2,048	301	0		0	0		0	0		0	
SY150	MINI-RAFT BACKPACK	A	0	978	604	591	80	550	44	0	0	0	285	700	200	
SY170	NAVY COMBAT EDGE	B	0	155	7,148	1,108	147	4,500	663	330	4,000	1,330	237	4,000	948	
SY175	AMELIA	A	0	0		0	0		0	0	0	0	400	750	300	
SY210	NIGHT VISION DEVICES	A	0	0		0	197	9,845	1,939	216	7,250	1,566	536	6,847	3,670	
SY220	LOW PROFILE FLOTATION COLLAR	A	0	0		0	2,161	324	702	600	323	194	2,350	360	846	
SY000	MISCELLANEOUS Var 1/	A	97,483													
SY830	PRODUCTION SUPPORT SERVICES		1,761			4,412			4,228			2,832			3,308	
			105,169			14,671			8,758			12,309			22,277	

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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System		A. DATE February 1998			
B. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA 3 AVIATION SUPPORT EQUIPMENT					C. P-1 ITEM NOMENCLATURE AVIATION LIFE SUPPORT SYSTEMS				SUBHEAD 43SY	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
SY010 PRC-125 FY-1998 FY-1999	198 100	2 2.2	DESC, COLUMB.,OH DESC, COLUMB.,OH	10/97 N/A	C/FP OPTION	TBD TBD	06/98 02/99	06/99 02/00	YES YES	N/A N/A
SY020 KY-913 PROGRAMMER FY-1997	50	2	ARMY, TOBY., PA	05/96	OPTION	MOTOROLA	08/97	08/98	YES	N/A
SY030 SURVIVAL RADIO FY-1998 FY-1999	250 600	1.2 1.05	NAWC, PAX NAWC, PAX	10/97 N/A	C/FP OPTION	TBD TBD	05/98 02/99	05/99 02/00	YES YES	N/A N/A
SY048 PRC-112 UPGRADES FY-1997 FY-1998	1676 2000	0.25 0.25	US ARMY, TOBY. US ARMY, TOBY.	N/A N/A	MIPR MIPR	US ARMY, TOBYHANNA US ARMY, TOBYHANNA	04/97 04/98	04/98 04/99	YES YES	N/A N/A
D. REMARKS SY048 - UPGRADE PERFORMED BY ARMY DEPOT. SY060 - FY97 PROCUREMENT IS FOR LASER SPECTACLES, FY98-99 IS FOR LASER VISORS.										

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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System			A. DATE February 1998		
B. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA 3 AVIATION SUPPORT EQUIPMENT					C. P-1 ITEM NOMENCLATURE AVIATION LIFE SUPPORT SYSTEMS				SUBHEAD 35582 43SY	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
SY060 COMBAT SURVIVOR EVADER LOCATOR FY-1998 FY-1999	494 1896	7 5.8	USAF USAF	10/97 N/A	C/FP OPTION	BOEING BOEING	05/98 10/98	05/99 09/99	YES YES	N/A N/A
SY080 LASER EYE PROTECTION FY-1997 (SPECS) FY-1999 (VISORS)	320 217	1.4 1.747	NAWC PAX RIVER NAWC PAX RIVER	03/96 03/96	C/FP C/FP	KAISER, CA (SPECS) AOTEC, MASS (VISORS)	10/96 10/98	11/97 12/98	YES YES	N/A N/A
SY100 CWU-60/P FY-1997	93	0.7	NAVICP, PHIL	N/A	OPTION	MUSTANG, WA	06/97	09/98	YES	N/A
SY110 HEED FY-1997	591	0.254	NAWC PAX RIVER	05/97	SS	US DIVERS/AQUA-LUNG, CA	06/97	02/98	YES	N/A
D. REMARKS SY080 - FY97 PROCUREMENT IS FOR LASER SPECTACLES, FY99 IS FOR LASER VISORS.										

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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System		A. DATE February 1998			
B. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA 3 AVIATION SUPPORT EQUIPMENT					C. P-1 ITEM NOMENCLATURE AVIATION LIFE SUPPORT SYSTEMS				SUBHEAD 43SY 35582	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
SY120 AISAP (ARMOR) FY-1998 FY-1999	1575 302	1.1 1.25	DPSC, PHIL DPSC, PHIL	02/97 N/A	C/FP OPTION	TBD	12/97 10/98	07/98 03/99	YES YES	N/A N/A
SY130 PATSS FY-1999	1863	0.215	NAVICP, PHIL	N/A	OPTION	TBD	01/99	10/99	YES	N/A
SY150 MINI-RAFT BKPK FY-1997 FY-1999	80 285	0.55 0.7	NAVICP, PHIL NAVICP, PHIL	05/97	OPTION OPTION		03/97 10/98	03/98 08/99	YES YES	N/A N/A
D. REMARKS										

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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System			A. DATE February 1998		
B. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA 3 AVIATION SUPPORT EQUIPMENT					C. P-1 ITEM NOMENCLATURE AVIATION LIFE SUPPORT SYSTEMS				SUBHEAD 35582 43SY	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
SY170 NAVY COMBAT EDGE										
FY-1997	147	4.5	USAF/NAVICP, PHIL	N/A	OPTION		09/97	09/98	YES	N/A
FY-1998	330	4	USAF/NAVICP, PHIL	N/A	OPTION		01/98	01/99	YES	N/A
FY-1999	237	4	USAF/NAVICP, PHIL	N/A	OPTION		10/98	10/99	YES	N/A
SY175 AMELIA										
FY-1999	400	0.75	DPSC, PHIL	10/98	C/FP	TBD	10/98	08/99	NO	10/99
SY210 NIGHT VISION DEVICES										
FY-1997	197	9.845	US ARMY	N/A	OPTION	ITT, ROANOKE, VA	05/97	12/97	YES	N/A
FY-1998	216	7.25	US ARMY	N/A	OPTION	ITT, ROANOKE, VA	01/98	09/98	YES	N/A
FY-1999	536	6.847	US ARMY	N/A	OPTION	ITT, ROANOKE, VA	10/98	04/99	YES	N/A
SY220 LOW PROFILE FLOTA- TION COLLAR										
FY-1997	1500	0.324	NAWC CHINA LAKE, CA	09/96	C/FP	SEI, ASHVILLE, NC	03/97	10/97	YES	N/A
FY-1997	661	0.324	NAWC CHINA LAKE, CA	N/A	OPTION	SEI, ASHVILLE, NC	08/97	04/98	YES	N/A
FY-1998	600	0.323	NAWC CHINA LAKE, CA	N/A	OPTION	SEI, ASHVILLE, NC	12/97	08/98	YES	N/A
FY-1999	2350	0.36	NAWC CHINA LAKE, CA	N/A	OPTION	SEI, ASHVILLE, NC	10/98	04/99	YES	N/A
SY210 - FY97 TOTAL INCLUDES \$100K FOR PROCUREMENT OF 50 TEST SETS.										

FY 1998/99 BUDGET PRODUCTION SCHEDULE, P-21							DATE February 1998												
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY							Weapon System			P-1 ITEM NOMENCLATURE AVIATION									
		Production Rate			Procurement Leadtimes														
Item	Manufacturer's Name and Location					MSR	1-8-5	MAX	ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure					
SY010, PRC-125	TBD					20	30	80	7	5	12	12	17	months					
SY020, KY-913 Programmer	Motorola, Arizona					30	50	100	7	11	12	12	23	months					
SY030, Survival Radio	TBD					40	100	200	7	5	12	12	17	months					

ITEM / MANUFACTURER	F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 1997												FISCAL YEAR 1998												B A L
						CALENDAR YEAR 1997												CALENDAR YEAR 1998												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
SY010 PRC-125/ TBD	98	N	198	0	198																						198			
	99	N	100	0	100																						100			
SY020, KY-913/MOTOROLA	97	N	50	0	50																				30	20	0			
SY030, SURVIVAL RADIO/TBD	98	N	250	0	250																						250			
	99	N	600	0	600																						600			

ITEM / MANUFACTURER	F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 1999												FISCAL YEAR 2000												B A L
						CALENDAR YEAR 1999												CALENDAR YEAR 2000												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
SY010, PRC-125/ TBD	98	N	198	0	198										50	50	50	48									0			
	99	N	100	0	100					A										30	30	30	10				0			
SY030, SURVIVAL RADIO/TBD	98	N	250	0	250								50	50	50	50	50										0			
	99	N	600	0	600					A										75	75	75	75	75	75	75	0			

Remarks:

FY 1998/99 BUDGET PRODUCTION SCHEDULE, P-21							DATE February 1998											
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY						Weapon System			P-1 ITEM NOMENCLATURE AVIATION									
						Production Rate			Procurement Leadtimes									
Item	Manufacturer's Name and Location					MSR	1-8-5	MAX	ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure				
SY048, PRC-112 Upgrades	US Army, Tobyhanna Depot					30	200	400	3	7	12	12	19	months				
SY060, Combat Surv. Evad. Loc.	TBD					100	500	1000	7	0	11	11	11	months				

ITEM / MANUFACTURER	F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 1997												FISCAL YEAR 1998												B A L
						CALENDAR YEAR 1997												CALENDAR YEAR 1998												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
SY048, PRC-112 Upgrades/ US Army	97	N	1676	0	1676								A																	
	98	N	2000	0	2000															140	140	140	140	140	140			836		
SY060, Combat Sur. Ev. Loc./Boeing	98	N	494	0	494																									
	99	N	1896	0	1896																A							494		

ITEM / MANUFACTURER	F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 1999												FISCAL YEAR 2000												B A L
						CALENDAR YEAR 1999												CALENDAR YEAR 2000												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
SY048, PRC-112 Upgrades/US Army	97	N	1676	840	836	140	140	140	140	140	136																	0		
	98	N	2000	0	2000							167	167	167	167	167	167	167	167	167	167	167	163				0			
SY060, Combat Sur. Ev. Loc./Boeing	98	N	484	0	494								104	130	130	130											0			
	99	N	1896	0	1896	A										158	158	158	158	158	158	158	158	158	158	158	0			

Remarks:

FY 1998/99 BUDGET PRODUCTION SCHEDULE, P-21							DATE February 1998												
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY							Weapon System			P-1 ITEM NOMENCLATURE AVIATION									
		Production Rate			Procurement Leadtimes														
Item	Manufacturer's Name and Location		MSR	1-8-5	MAX	ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure								
SY150, Mini-Raft Backpack	Patten, FL		30	100	300	7	0	10	9	10	months								
SY170, Navy Combat Edge	TBD		27	75	200	7	0	12	12	12	months								

ITEM / MANUFACTURER	F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 1997												FISCAL YEAR 1998												B A L
						CALENDAR YEAR 1997												CALENDAR YEAR 1998												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
SY150, Mini-Raft Backpack/TBD	97	N	80	0	80							A															0			
	99	N	285	0	285														40	40							285			
SY170, Navy Combat Edge/TBD	97	N	147	0	147											A											32	115		
	98	N	330	0	330													A									330			
	99	N	237	0	237																						237			

ITEM / MANUFACTURER	F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 1999												FISCAL YEAR 2000												B A L
						CALENDAR YEAR 1999												CALENDAR YEAR 2000												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
SY150, Mini-Raft Backpack/TBD	99	N	285	0	285	A											125	125	35									0		
SY170, Navy Combat Edge/TBD	97	N	147	32	115	35	40	40																			0			
	98	N	330	0	330				40	40	40	40	40	40	30	30	30										0			
	99	N	237	0	237	A												30	30	30	30	30	30	27			0			

Remarks:

FY 1998/99 BUDGET PRODUCTION SCHEDULE, P-21										DATE February 1998	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY						Weapon System		P-1 ITEM NOMENCLATURE AVIATION			
		Production Rate			Procurement Leadtimes						
Item	Manufacturer's Name and Location	MSR	1-8-5	MAX	ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure	
SY175, AMELIA	TBD	20	50	300	7	0	10	6	10	months	
SY210, Night Vision Devices	ITT, VA	20	150	200	7	0	7	6	7	months	
SY220, Low Profile Flotation Clr.	SEI, Ashville, NC	30	250	300	7	0	6	6	6	months	

ITEM / MANUFACTURER	F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 1997												FISCAL YEAR 1998												B A L
						CALENDAR YEAR 1997												CALENDAR YEAR 1998												
						O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	
						C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	J	U	U	
SY 175 AMELIA/TBD	99	N	400	0	400																						400			
SY210, Night Vision Devices/ITT	97	N	197	0	197								A													0				
	98	N	216	0	216													21	21	21	21	21	23	23	23	23	30	186		
	99	N	536	0	536																					536				
SY220, Low Profile Flotation Clr./SEI	97	N	1500	0	1500						A							250	250	250	250	250	250			0				
	97	N	661	0	661										A								55	55	55	55	331			
	98	N	600	0	600																			50	50	500				
	99	N	2350	0	2350																					2350				

ITEM / MANUFACTURER	F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 1999												FISCAL YEAR 2000												B A L
						CALENDAR YEAR 1999												CALENDAR YEAR 2000												
						O	N	D	J	F	M	A	M	J	S	A	S	O	N	D	J	F	M	A	M	J	J	A	S	
						C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E	
SY175, AMELIA/TBD	99	N	400	0	400	A											40	40	40	40	40	40	40	40	40	0				
SY210, Night Vision Devices/ITT	98	N	216	30	186	30	30	30	30	30	36															0				
	99	N	536	0	536	A							45	45	45	45	45	45	45	45	45	45	41		0					
Low Profile Flotation Collar/SEI	97	N	661	330	331	55	55	55	55	55	56														0					
	98	N	600	100	500	50	50	50	50	50	50	50	50	50	50										0					
	99	N	2350	0	2350	A							200	200	200	200	200	200	200	200	200	150			0					

Remarks:

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Exhibit P-20, Requirements Study			APPROPRIATION/BUDGET ACTIVITY			DATE: February 1998		
P-1 ITEM NOMENCLATURE PRC-125			Admin Leadtime (after Oct1): 5 MONTHS			Prod Leadtime : 12 MONTHS		
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
Buy Summary	0	0	198	100	97			
Unit Cost			2.00	2.20	2.20			
Total Cost			\$396.0	\$220.0	\$213.4			
Asset Dynamics								
Beginning Asset Position	785	785	785	785	983	1083	1180	1180
Deliveries from all prior year funding	0	0	0	0	0	0	0	0
Deliveries from FY 1997 funding	0	0	0	0	0	0	0	0
Deliveries from FY 1998 funding	0	0	0	198	0	0	0	0
Deliveries from FY 1999 funding	0	0	0	0	100	0	0	0
Deliveries from subsequent years' funding	0	0	0	0	0	97	0	0
Other Gains								
Combat Losses/Usage								
Training Losses/Usage								
Test Losses/Usage								
Other Losses/Usage								
Disposals/Retirements/Attritions/etc.								
End of Year Asset Position	785	785	785	983	1083	1180	1180	1180
Inventory Objective or Current Authorized Allowance	1180	1180	1180	1180	1180	1180	1180	1180
Inventory Objective 1180	Actual Training Expenditures	Other than Training Usage	Disposals (Vehicles/Other)		Vehicles Eligible for FY 1998 Replacement:		Aircraft: TOAI:	
Assets Rqd For Combat Loads:	FY 1996 thru XXXXX:	FY 1996 thru XXXXX:	FY 1996 thru XXXXX:		Vehicles Eligible for FY 1999 Replacement:		PAA: TAI	
WRM Rqmt:	FY 1995:	FY 1995:	FY 1995:		Vehicle Augment:		Attrition Res:	
Pipeline:	FY 1994:	FY 1994:	FY 1994:				BAI	
Other:	FY 1993:	FY 1993:	FY 1993:				Inactive Inv:	
TOTAL:							Storage:	
Remarks:								

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Exhibit P-20, Requirements Study			APPROPRIATION/BUDGET ACTIVITY				DATE:	
			OPN				February 1998	
P-1 ITEM NOMENCLATURE			Admin Leadtime (after Oct1):			Prod Leadtime :		
KY-913 PROGRAMMER			11 MONTHS			12 MONTHS		
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
Buy Summary	0	50	0	0	0	0	0	0
Unit Cost		2						
Total Cost		\$100.0						
Asset Dynamics								
Beginning Asset Position	143	143	143	193	193	193	193	193
Deliveries from all prior year funding	0	0	0	0	0	0	0	0
Deliveries from FY 1997 funding	0	0	50	0	0	0	0	0
Deliveries from FY 1998 funding	0	0	0	0	0	0	0	0
Deliveries from FY 1999 funding	0	0	0	0	0	0	0	0
Deliveries from subsequent years' funding	0	0	0	0	0	0	0	0
Other Gains								
Combat Losses/Usage								
Training Losses/Usage								
Test Losses/Usage								
Other Losses/Usage								
Disposals/Retirements/Attritions/etc.								
End of Year Asset Position	143	143	193	193	193	193	193	193
Inventory Objective or Current Authorized Allowance	193	193	193	193	193	193	193	193
Inventory Objective 193	Actual Training Expenditures	Other than Training Usage	Disposals (Vehicles/Other)		Vehicles Eligible for FY 1998 Replacement:		Aircraft: TOAI:	
Assets Rqd For Combat Loads:	FY 1996 thru XXXXX:	FY 1996 thru XXXXX:	FY 1996 thru XXXXX:		Vehicles Eligible for FY 1999 Replacement:		PAA: TAI	
WRM Rqmt:	FY 1995:	FY 1995:	FY 1995:		Vehicle Augment:		Attrition Res:	
Pipeline:	FY 1994:	FY 1994:	FY 1994:				BAI	
Other:	FY 1993:	FY 1993:	FY 1993:				Inactive Inv:	
TOTAL:							Storage:	
Remarks:								

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Exhibit P-20, Requirements Study				APPROPRIATION/BUDGET ACTIVITY			DATE:	
				OPN			February 1998	
P-1 ITEM NOMENCLATURE				Admin Leadtime (after Oct1):			Prod Leadtime :	
Survival Radio				5 MONTHS			12 MONTHS	
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
Buy Summary	0	0	250	600	1000	4787	6704	3830
Unit Cost			1.200	1.050	0.950	0.900	0.850	0.900
Total Cost			\$300.0	\$630.0	\$950.0	\$4,308.3	\$5,698.4	\$3,447.0
Asset Dynamics								
Beginning Asset Position	0	0	0	0	250	850	1850	6637
Deliveries from all prior year funding	0	0	0	0	0	0	0	0
Deliveries from FY 1997 funding	0	0	0	0	0	0	0	0
Deliveries from FY 1998 funding	0	0	0	250	0	0	0	0
Deliveries from FY 1999 funding	0	0	0	0	600	0	0	0
Deliveries from subsequent years' funding	0	0	0	0	0	1000	4787	6704
Other Gains								
Combat Losses/Usage								
Training Losses/Usage								
Test Losses/Usage								
Other Losses/Usage								
Disposals/Retirements/Attritions/etc.								
End of Year Asset Position	0	0	0	250	850	1850	6637	13341
Inventory Objective or Current Authorized Allowance	20000	20000	20000	20000	20000	20000	20000	20000
Inventory Objective 20000	Actual Training Expenditures	Other than Training Usage	Disposals (Vehicles/Other)	Vehicles Eligible for FY 1998 Replacement:	Aircraft: TOAI:			
Assets Rqd For Combat Loads:	FY 1996 thru XXXXX:	FY 1996 thru XXXXX:	FY 1996 thru XXXXX:	Vehicles Eligible for FY 1999 Replacement:	PAA: TAI			
WRM Rqmt:	FY 1995:	FY 1995:	FY 1995:	Vehicle Augment:	Attrition Res:			
Pipeline:	FY 1994:	FY 1994:	FY 1994:		BAI			
Other:	FY 1993:	FY 1993:	FY 1993:		Inactive Inv:			
TOTAL:					Storage:			
Remarks:								

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Exhibit P-20, Requirements Study			APPROPRIATION/BUDGET ACTIVITY OPN				DATE: February 1998	
P-1 ITEM NOMENCLATURE PRC-112 Upgrades			Admin Leadtime (after Oct1): 7 MONTHS			Prod Leadtime : 12 MONTHS		
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
Buy Summary	0	1676	2000	0	0	0	0	0
Unit Cost		0.250	0.250					
Total Cost		\$419.0	\$500.0					
Asset Dynamics								
Beginning Asset Position	0	0	0	840	2678	3676	3676	3676
Deliveries from all prior year funding	0	0	0	0	0	0	0	0
Deliveries from FY 1997 funding	0	0	840	836	0	0	0	0
Deliveries from FY 1998 funding	0	0	0	1002	998	0	0	0
Deliveries from FY 1999 funding	0	0	0	0	0	0	0	0
Deliveries from subsequent years' funding	0	0	0	0	0	0	0	0
Other Gains								
Combat Losses/Usage								
Training Losses/Usage								
Test Losses/Usage								
Other Losses/Usage								
Disposals/Retirements/Attritions/etc.								
End of Year Asset Position	0	0	840	2678	3676	3676	3676	3676
Inventory Objective or Current Authorized Allowance	3676	3676	3676	3676	3676	3676	3676	3676
Inventory Objective 3676	Actual Training Expenditures	Other than Training Usage	Disposals (Vehicles/Other)	Vehicles Eligible for FY 1998 Replacement:	Aircraft: TOAI:			
Assets Rqd For Combat Loads:	FY 1996 thru XXXXX:	FY 1996 thru XXXXX:	FY 1996 thru XXXXX:	Vehicles Eligible for FY 1999 Replacement:	PAA: TAI			
WRM Rqmt:	FY 1995:	FY 1995:	FY 1995:	Vehicle Augment:	Attrition Res:			
Pipeline:	FY 1994:	FY 1994:	FY 1994:		BAI			
Other:	FY 1993:	FY 1993:	FY 1993:		Inactive Inv:			
TOTAL:					Storage:			
Remarks:								

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Exhibit P-20, Requirements Study			APPROPRIATION/BUDGET ACTIVITY				DATE:	
			OPN				February 1998	
P-1 ITEM NOMENCLATURE			Admin Leadtime (after Oct1):				Prod Leadtime :	
Combat Survivor Evader Locator			0 MONTHS				11 MONTHS	
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
Buy Summary	0	0	494	1896	2727	2800	982	0
Unit Cost			7.000	5.800	5.500	5.500	6.300	
Total Cost			\$3,458.0	\$10,996.8	\$14,998.5	\$15,400.0	\$6,186.6	
Asset Dynamics								
Beginning Asset Position	0	0	0	0	652	2390	5117	7917
Deliveries from all prior year funding	0	0	0	0	0	0	0	0
Deliveries from FY 1997 funding	0	0	0	0	0	0	0	0
Deliveries from FY 1998 funding	0	0	0	494	0	0	0	0
Deliveries from FY 1999 funding	0	0	0	158	1738	0	0	0
Deliveries from subsequent years' funding	0	0	0	0	0	2727	2800	982
Other Gains								
Combat Losses/Usage								
Training Losses/Usage								
Test Losses/Usage								
Other Losses/Usage								
Disposals/Retirements/Attritions/etc.								
End of Year Asset Position	0	0	0	652	2390	5117	7917	8899
Inventory Objective or Current Authorized Allowance	9000	9000	9000	9000	9000	9000	9000	9000
Inventory Objective 9000	Actual Training Expenditures	Other than Training Usage	Disposals (Vehicles/Other)	Vehicles Eligible for FY 1998 Replacement:	Aircraft: TOAI:			
Assets Rqd For Combat Loads:	FY 1996 thru XXXXX:	FY 1996 thru XXXXX:	FY 1996 thru XXXXX:	Vehicles Eligible for FY 1999 Replacement:	PAA: TAI			
WRM Rqmt:	FY 1995:	FY 1995:	FY 1995:	Vehicle Augment:	Attrition Res:			
Pipeline:	FY 1994:	FY 1994:	FY 1994:		BAI			
Other:	FY 1993:	FY 1993:	FY 1993:		Inactive Inv:			
TOTAL:					Storage:			
Remarks:								

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Exhibit P-20, Requirements Study			APPROPRIATION/BUDGET ACTIVITY				DATE:	
			OPN				February 1998	
P-1 ITEM NOMENCLATURE			Admin Leadtime (after Oct1):			Prod Leadtime :		
Laser Eye Protection			9 MONTHS			7 MONTHS		
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
Buy Summary	0	320	0	217	845	1871	2000	1587
Unit Cost		1.400	0.000	1.747	1.747	1.200	1.200	1.200
Total Cost		\$448.0	\$0.0	\$379.1	\$1,476.2	\$2,245.2	\$2,400.0	\$1,904.4
Asset Dynamics								
Beginning Asset Position	0	0	0	320	537	537	1382	3253
Deliveries from all prior year funding	0	0	0	0	0	0	0	0
Deliveries from FY 1997 funding	0	0	320	0	0	0	0	0
Deliveries from FY 1998 funding	0	0	0	0	0	0	0	0
Deliveries from FY 1999 funding	0	0	0	217	0	0	0	0
Deliveries from subsequent years' funding	0	0	0	0	0	845	1871	2000
Other Gains								
Combat Losses/Usage								
Training Losses/Usage								
Test Losses/Usage								
Other Losses/Usage								
Disposals/Retirements/Attritions/etc.								
End of Year Asset Position	0	0	320	537	537	1382	3253	5253
Inventory Objective or Current Authorized Allowance	7800	7800	7800	7800	7800	7800	7800	7800
Inventory Objective 7800	Actual Training Expenditures	Other than Training Usage	Disposals (Vehicles/Other)	Vehicles Eligible for FY 1998 Replacement:	Aircraft: TOAI:			
Assets Rqd For Combat Loads:	FY 1996 thru XXXXX:	FY 1996 thru XXXXX:	FY 1996 thru XXXXX:	Vehicles Eligible for FY 1999 Replacement:	PAA: TAI			
WRM Rqmt:	FY 1995:	FY 1995:	FY 1995:	Vehicle Augment:	Attrition Res:			
Pipeline:	FY 1994:	FY 1994:	FY 1994:		BAI			
Other:	FY 1993:	FY 1993:	FY 1993:		Inactive Inv:			
TOTAL:					Storage:			
Remarks:								

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Exhibit P-20, Requirements Study			APPROPRIATION/BUDGET ACTIVITY				DATE:	
			OPN				February 1998	
P-1 ITEM NOMENCLATURE			Admin Leadtime (after Oct1):				Prod Leadtime :	
CWU-60/P			9 MONTHS				15 MONTHS	
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
Buy Summary	4257	93	0	0	0	0	0	0
Unit Cost	0.700	0.700						
Total Cost	\$2,979.9	\$65.1						
Asset Dynamics								
Beginning Asset Position	0	0	1084	4350	4350	4350	4350	4350
Deliveries from all prior year funding	0	1084	3173	0	0	0	0	0
Deliveries from FY 1997 funding	0	0	93	0	0	0	0	0
Deliveries from FY 1998 funding	0	0	0	0	0	0	0	0
Deliveries from FY 1999 funding	0	0	0	0	0	0	0	0
Deliveries from subsequent years' funding	0	0	0	0	0	0	0	0
Other Gains								
Combat Losses/Usage								
Training Losses/Usage								
Test Losses/Usage								
Other Losses/Usage								
Disposals/Retirements/Attritions/etc.								
End of Year Asset Position	0	1084	4350	4350	4350	4350	4350	4350
Inventory Objective or Current Authorized Allowance	4350	4350	4350	4350	4350	4350	4350	4350
Inventory Objective 4350	Actual Training Expenditures	Other than Training Usage	Disposals (Vehicles/Other)	Vehicles Eligible for FY 1998 Replacement:	Aircraft: TOAI:			
Assets Rqd For Combat Loads:	FY 1996 thru XXXXXX:	FY 1996 thru XXXXXX:	FY 1996 thru XXXXXX:	Vehicles Eligible for FY 1999 Replacement:	PAA: TAI			
WRM Rqmt:	FY 1995:	FY 1995:	FY 1995:	Vehicle Augment:	Attrition Res:			
Pipeline:	FY 1994:	FY 1994:	FY 1994:		BAI			
Other:	FY 1993:	FY 1993:	FY 1993:		Inactive Inv:			
TOTAL:					Storage:			
Remarks:								

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Exhibit P-20, Requirements Study				APPROPRIATION/BUDGET ACTIVITY			DATE:	
				OPN			February 1998	
P-1 ITEM NOMENCLATURE				Admin Leadtime (after Oct1):			Prod Leadtime :	
Helicopter Emergency Egress Device				9 MONTHS			8 MONTHS	
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
Buy Summary	5409	591	0	0	0	0	0	0
Unit Cost	0.402	0.254						
Total Cost	\$2,172.0	\$150.1						
Asset Dynamics								
Beginning Asset Position	0	0	4500	6000	6000	6000	6000	6000
Deliveries from all prior year funding	0	4500	909	0	0	0	0	0
Deliveries from FY 1997 funding	0	0	591	0	0	0	0	0
Deliveries from FY 1998 funding	0	0	0	0	0	0	0	0
Deliveries from FY 1999 funding	0	0	0	0	0	0	0	0
Deliveries from subsequent years' funding	0	0	0	0	0	0	0	0
Other Gains	0	0	0	0	0	0	0	0
Combat Losses/Usage								
Training Losses/Usage								
Test Losses/Usage								
Other Losses/Usage								
Disposals/Retirements/Attritions/etc.								
End of Year Asset Position	0	4500	6000	6000	6000	6000	6000	6000
Inventory Objective or Current Authorized Allowance	6000	6000	6000	6000	6000	6000	6000	6000
Inventory Objective 6000	Actual Training Expenditures	Other than Training Usage	Disposals (Vehicles/Other)	Vehicles Eligible for FY 1998 Replacement:	Aircraft: TOAI:			
Assets Rqd For Combat Loads:	FY 1996 thru XXXXX:	FY 1996 thru XXXXX:	FY 1996 thru XXXXX:	Vehicles Eligible for FY 1999 Replacement:	PAA: TAI			
WRM Rqmt:	FY 1995:	FY 1995:	FY 1995:	Vehicle Augment:	Attrition Res:			
Pipeline:	FY 1994:	FY 1994:	FY 1994:		BAI			
Other:	FY 1993:	FY 1993:	FY 1993:		Inactive Inv:			
TOTAL:					Storage:			
Remarks:								

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Exhibit P-20, Requirements Study			APPROPRIATION/BUDGET ACTIVITY				DATE:	
			OPN				February 1998	
P-1 ITEM NOMENCLATURE			Admin Leadtime (after Oct1):				Prod Leadtime :	
Aircrew Integrated Survival / Armor Protection			0 MONTHS				7 MONTHS	
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
Buy Summary	841	0	1575	302	0	0	0	0
Unit Cost	1.240		1.100	1.250				
Total Cost	\$1,042.8		\$1,732.5	\$377.5				
Asset Dynamics								
Beginning Asset Position	850	850	1691	2291	3568	3568	3568	3568
Deliveries from all prior year funding	0	841	0	0	0	0	0	0
Deliveries from FY 1997 funding	0	0	0	0	0	0	0	0
Deliveries from FY 1998 funding	0	0	600	975	0	0	0	0
Deliveries from FY 1999 funding	0	0	0	302	0	0	0	0
Deliveries from subsequent years' funding	0	0	0	0	0	0	0	0
Other Gains								
Combat Losses/Usage								
Training Losses/Usage								
Test Losses/Usage								
Other Losses/Usage								
Disposals/Retirements/Attritions/etc.								
End of Year Asset Position	850	1691	2291	3568	3568	3568	3568	3568
Inventory Objective or Current Authorized Allowance	3568	3568	3568	3568	3568	3568	3568	3568
Inventory Objective 3568	Actual Training Expenditures	Other than Training Usage	Disposals (Vehicles/Other)	Vehicles Eligible for FY 1998 Replacement:	Aircraft: TOAI:			
Assets Rqd For Combat Loads:	FY 1996 thru XXXXX:	FY 1996 thru XXXXX:	FY 1996 thru XXXXX:	Vehicles Eligible for FY 1999 Replacement:	PAA: TAI			
WRM Rqmt:	FY 1995:	FY 1995:	FY 1995:	Vehicle Augment:	Attrition Res:			
Pipeline:	FY 1994:	FY 1994:	FY 1994:		BAI			
Other:	FY 1993:	FY 1993:	FY 1993:		Inactive Inv:			
TOTAL:					Storage:			
Remarks:								

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Exhibit P-20, Requirements Study				APPROPRIATION/BUDGET ACTIVITY			DATE:	
				OPN			February 1998	
P-1 ITEM NOMENCLATURE				Admin Leadtime (after Oct1):			Prod Leadtime :	
Passenger and Troop Survival System				4 MONTHS			9 MONTHS	
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
Buy Summary	4238	0	0	1863	0	0	0	0
Unit Cost	0.186			0.215				
Total Cost	\$787.0			\$400.5				
Asset Dynamics								
Beginning Asset Position	0	0	564	2487	4238	6101	6101	6101
Deliveries from all prior year funding	0	564	1923	1751	0	0	0	0
Deliveries from FY 1997 funding	0	0	0	0	0	0	0	0
Deliveries from FY 1998 funding	0	0	0	0	0	0	0	0
Deliveries from FY 1999 funding	0	0	0	0	1863	0	0	0
Deliveries from subsequent years' funding	0	0	0	0	0	0	0	0
Other Gains								
Combat Losses/Usage								
Training Losses/Usage								
Test Losses/Usage								
Other Losses/Usage								
Disposals/Retirements/Attritions/etc.								
End of Year Asset Position	0	564	2487	4238	6101	6101	6101	6101
Inventory Objective or Current Authorized Allowance	8652	8652	8652	8652	8652	8652	8652	8652
Inventory Objective 8652	Actual Training Expenditures	Other than Training Usage	Disposals (Vehicles/Other)	Vehicles Eligible for FY 1998 Replacement:	Aircraft: TOAI:			
Assets Rqd For Combat Loads:	FY 1996 thru XXXXX:	FY 1996 thru XXXXX:	FY 1996 thru XXXXX:	Vehicles Eligible for FY 1999 Replacement:	PAA: TAI			
WRM Rqmt:	FY 1995:	FY 1995:	FY 1995:	Vehicle Augment:	Attrition Res:			
Pipeline:	FY 1994:	FY 1994:	FY 1994:		BAI			
Other:	FY 1993:	FY 1993:	FY 1993:		Inactive Inv:			
TOTAL:					Storage:			
Remarks:								

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Exhibit P-20, Requirements Study			APPROPRIATION/BUDGET ACTIVITY OPN				DATE: February 1998	
P-1 ITEM NOMENCLATURE Mini-Raft Backpack			Admin Leadtime (after Oct1): 0 MONTHS			Prod Leadtime : 10 MONTHS		
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
Buy Summary	978	80	0	285	0	1541	1541	0
Unit Cost	0.680	0.550		0.700	0.000	0.400	0.400	
Total Cost	\$591.0	\$44.0		\$199.5	\$0.0	\$616.4	\$616.0	
Asset Dynamics								
Beginning Asset Position	0	0	150	1058	1308	1343	2884	4425
Deliveries from all prior year funding	0	150	828	0	0	0	0	0
Deliveries from FY 1997 funding	0	0	80	0	0	0	0	0
Deliveries from FY 1998 funding	0	0	0	0	0	0	0	0
Deliveries from FY 1999 funding	0	0	0	250	35	0	0	0
Deliveries from subsequent years' funding	0	0	0	0	0	1541	1541	0
Other Gains								
Combat Losses/Usage								
Training Losses/Usage								
Test Losses/Usage								
Other Losses/Usage								
Disposals/Retirements/Attritions/etc.								
End of Year Asset Position	0	150	1058	1308	1343	2884	4425	4425
Inventory Objective or Current Authorized Allowance	5900	5900	5900	5900	5900	5900	5900	5900
Inventory Objective 5900	Actual Training Expenditures	Other than Training Usage	Disposals (Vehicles/Other)		Vehicles Eligible for FY 1998 Replacement:		Aircraft: TOAI:	
Assets Rqd For Combat Loads:	FY 1996 thru XXXXX:	FY 1996 thru XXXXX:	FY 1996 thru XXXXX:		Vehicles Eligible for FY 1999 Replacement:		PAA: TAI	
WRM Rqmt:	FY 1995:	FY 1995:	FY 1995:		Vehicle Augment:		Attrition Res:	
Pipeline:	FY 1994:	FY 1994:	FY 1994:				BAI	
Other:	FY 1993:	FY 1993:	FY 1993:				Inactive Inv:	
TOTAL:							Storage:	
Remarks:								

P-1 SHOPPING LIST

CLASSIFICATION:

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Exhibit P-20, Requirements Study			APPROPRIATION/BUDGET ACTIVITY				DATE:	
			OPN				February 1998	
P-1 ITEM NOMENCLATURE			Admin Leadtime (after Oct1):			Prod Leadtime :		
Navy Combat Edge			0 MONTHS			12 MONTHS		
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
Buy Summary	155	147	330	237	479	373	0	0
Unit Cost	4.000	4.500	4.000	4.000	4.000	4.000		
Total Cost	\$1,108.0	\$663.0	\$1,320.0	\$948.0	\$1,916.0	\$1,492.0		
Asset Dynamics								
Beginning Asset Position	0	0	0	187	632	989	1441	1721
Deliveries from all prior year funding	0	0	155	0	0	0	0	0
Deliveries from FY 1997 funding	0	0	32	115	0	0	0	0
Deliveries from FY 1998 funding	0	0	0	330	0	0	0	0
Deliveries from FY 1999 funding	0	0	0	0	237	0	0	0
Deliveries from subsequent years' funding	0	0	0	0	120	452	280	0
Other Gains								
Combat Losses/Usage								
Training Losses/Usage								
Test Losses/Usage								
Other Losses/Usage								
Disposals/Retirements/Attritions/etc.								
End of Year Asset Position	0	0	187	632	989	1441	1721	1721
Inventory Objective or Current Authorized Allowance	1821	1821	1821	1821	1821	1821	1821	1821
Inventory Objective	Actual Training Expenditures	Other than Training Usage	Disposals			Vehicles Eligible for		Aircraft: TOAI:
Assets Rqd For Combat Loads:	FY 1996 thru XXXXX:	FY 1996 thru XXXXX:	(Vehicles/Other) FY 1996 thru XXXXX:			FY 1998 Replacement: Vehicles Eligible for		PAA: TAI
WRM Rqmt:	FY 1995:	FY 1995:	XXXXX:			FY 1999 Replacement:		Attrition Res:
Pipeline:	FY 1994:	FY 1994:	FY 1995:			Vehicle Augment:		BAI
Other:	FY 1993:	FY 1993:	FY 1994:					Inactive Inv:
TOTAL:			FY 1993:					Storage:
Remarks:								

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Exhibit P-20, Requirements Study				APPROPRIATION/BUDGET ACTIVITY OPN			DATE: February 1998	
P-1 ITEM NOMENCLATURE AMELIA				Admin Leadtime (after Oct1): 0 MONTHS			Prod Leadtime : 10 MONTHS	
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
Buy Summary	0	0	0	400	300	0	0	0
Unit Cost				0.750	0.564			
Total Cost				\$300.0	\$169.0			
Asset Dynamics								
Beginning Asset Position	0	0	0	0	80	400	700	700
Deliveries from all prior year funding	0	0	0	0	0	0	0	0
Deliveries from FY 1997 funding	0	0	0	0	0	0	0	0
Deliveries from FY 1998 funding	0	0	0	0	0	0	0	0
Deliveries from FY 1999 funding	0	0	0	80	320	0	0	0
Deliveries from subsequent years' funding	0	0	0	0	0	300	0	0
Other Gains								
Combat Losses/Usage								
Training Losses/Usage								
Test Losses/Usage								
Other Losses/Usage								
Disposals/Retirements/Attritions/etc.								
End of Year Asset Position	0	0	0	80	400	700	700	700
Inventory Objective or Current Authorized Allowance	1200	1200	1200	1200	1200	1200	1200	1200
Inventory Objective 1200	Actual Training Expenditures	Other than Training Usage	Disposals (Vehicles/Other)	Vehicles Eligible for FY 1998 Replacement:	Aircraft: TOAI:			
Assets Rqd For Combat Loads:	FY 1996 thru XXXXX:	FY 1996 thru XXXXX:	FY 1996 thru XXXXX:	Vehicles Eligible for FY 1999 Replacement:	PAA: TAI			
WRM Rqmt:	FY 1995:	FY 1995:	FY 1995:	Vehicle Augment:	Attrition Res:			
Pipeline:	FY 1994:	FY 1994:	FY 1994:		BAI			
Other:	FY 1993:	FY 1993:	FY 1993:		Inactive Inv:			
TOTAL:					Storage:			
Remarks:								

P-1 SHOPPING LIST

CLASSIFICATION:

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Exhibit P-20, Requirements Study			APPROPRIATION/BUDGET ACTIVITY				DATE:	
			OPN				February 1998	
P-1 ITEM NOMENCLATURE			Admin Leadtime (after Oct1):			Prod Leadtime :		
Night Vision Devices			0 MONTHS			7 MONTHS		
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
Buy Summary	0	197	216	536	51	0	0	0
Unit Cost		9.845	7.250	6.847	7.000			
Total Cost		\$1,939.0	\$1,566.0	\$3,670.0	\$357.0			
Asset Dynamics								
Beginning Asset Position	0	0	0	227	683	1000	1000	1000
Deliveries from all prior year funding	0	0	0	0	0	0	0	0
Deliveries from FY 1997 funding	0	0	197	0	0	0	0	0
Deliveries from FY 1998 funding	0	0	30	186	0	0	0	0
Deliveries from FY 1999 funding	0	0	0	270	266	0	0	0
Deliveries from subsequent years' funding	0	0	0	0	51	0	0	0
Other Gains								
Combat Losses/Usage								
Training Losses/Usage								
Test Losses/Usage								
Other Losses/Usage								
Disposals/Retirements/Attritions/etc.								
End of Year Asset Position	0	0	227	683	1000	1000	1000	1000
Inventory Objective or Current Authorized Allowance	1000	1000	1000	1000	1000	1000	1000	1000
Inventory Objective 1000	Actual Training Expenditures	Other than Training Usage	Disposals (Vehicles/Other)		Vehicles Eligible for FY 1998 Replacement:		Aircraft: TOAI:	
Assets Rqd For Combat Loads:	FY 1996 thru XXXXX:	FY 1996 thru XXXXX:	FY 1996 thru XXXXX:		Vehicles Eligible for FY 1999 Replacement:		PAA: TAI	
WRM Rqmt:	FY 1995:	FY 1995:	FY 1995:		Vehicle Augment:		Attrition Res:	
Pipeline:	FY 1994:	FY 1994:	FY 1994:				BAI	
Other:	FY 1993:	FY 1993:	FY 1993:				Inactive Inv:	
TOTAL:							Storage:	
Remarks:								

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Exhibit P-20, Requirements Study				APPROPRIATION/BUDGET ACTIVITY			DATE:	
				OPN			February 1998	
P-1 ITEM NOMENCLATURE				Admin Leadtime (after Oct1):			Prod Leadtime :	
Low Profile Flotation Collar				0 MONTHS			6 MONTHS	
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
Buy Summary	0	2161	600	2350	5589	0	0	0
Unit Cost		0.324	0.323	0.360	0.380			
Total Cost		\$702.0	\$194	\$846.0	\$2,121.0			
Asset Dynamics								
Beginning Asset Position	0	0	0	1930	3961	7905	10700	10700
Deliveries from all prior year funding	0	0	0	0	0	0	0	0
Deliveries from FY 1997 funding	0	0	1830	331	0	0	0	0
Deliveries from FY 1998 funding	0	0	100	500	0	0	0	0
Deliveries from FY 1999 funding	0	0	0	1200	1150	0	0	0
Deliveries from subsequent years' funding	0	0	0	0	2794	2795	0	0
Other Gains								
Combat Losses/Usage								
Training Losses/Usage								
Test Losses/Usage								
Other Losses/Usage								
Disposals/Retirements/Attritions/etc.								
End of Year Asset Position	0	0	1930	3961	7905	10700	10700	10700
Inventory Objective or Current Authorized Allowance	10700	10700	10700	10700	10700	10700	10700	10700
Inventory Objective 10700	Actual Training Expenditures	Other than Training Usage	Disposals (Vehicles/Other)		Vehicles Eligible for FY 1998 Replacement:		Aircraft: TOAI:	
Assets Rqd For Combat Loads:	FY 1996 thru XXXXX:	FY 1996 thru XXXXX:	FY 1996 thru XXXXX:		Vehicles Eligible for FY 1999 Replacement:		PAA: TAI	
WRM Rqmt:	FY 1995:	FY 1995:	FY 1995:		Vehicle Augment:		Attrition Res:	
Pipeline:	FY 1994:	FY 1994:	FY 1994:				BAI	
Other:	FY 1993:	FY 1993:	FY 1993:				Inactive Inv:	
TOTAL:							Storage:	
Remarks:								

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TIME PHASED REQUIREMENT SCHEDULE P-23					A. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy								B. P-1 ITEM NOMENCLATURE PRC-125								C. DATE February 1998						
		FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				LATER	
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
ACTIVE FORCE INVENTORY	(P)	1180	1180	1180	1180	1180	1180	1180	1180	1180	1180	1180	1180	1180	1180	1180	1180	1180	1180	1180	1180	1180	1180	1180	1180	1180	1180
SCHOOLS/OTHER TRAINING	(P)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OTHER	(P)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOTAL PHASED REQ	(C)	1180	1180	1180	1180	1180	1180	1180	1180	1180	1180	1180	1180	1180	1180	1180	1180	1180	1180	1180	1180	1180	1180	1180	1180	1180	1180
ASSETS ON HAND	(BP)	785																									
DELIVERY FY 96 & PRIOR	(P)	785																									
FY 96 & PRIOR	(P)	785																									
FY 97	(P)																										
FY 98	(P)									0	0	50	148														
FY 99	(P)													0	60	40	0										
FY 00	(P)																	0	60	37	0						
FY 01	(P)																										
FY 02	(P)																										
FY 03	(P)																										
To Complete	(P)																										
TOTAL ASSETS	(C)	785	785	785	785	785	785	785	785	785	835	983	983	1043	1083	1083	1083	1143	1180	1180							
QTY OVER (+) OR SHORT (-)		-395	-395	-395	-395	-395	-395	-395	-395	-395	-345	-197	-197	-137	-97	-97	-97	-37	0	0							
D. REMARKS		E. RQMT (QTY)								TOTAL RQMT				INSTALLED		ON HAND AS OF / /96		FY 99 & PRIOR UNDELIVERED				UNFUNDED					
		1. APPN - OPN								1180				785				298				0					
		2. APPN -																									
		3. PROCUREMENT LEADTIME 17								ADMIN 5				INITIAL ORDER 12				REORDER 12									

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TIME PHASED REQUIREMENT SCHEDULE P-23					A. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy								B. P-1 ITEM NOMENCLATURE KY-913/MOTOROLA								C. DATE February 1998					
		FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				LATER
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
ACTIVE FORCE INVENTORY	(P)	193	193	193	193	193	193	193	193																	
SCHOOLS/OTHER TRAINING	(P)	0	0	0	0	0	0	0	0																	
OTHER	(P)	0	0	0	0	0	0	0	0																	
TOTAL PHASED REQ	(C)	193	193	193	193	193	193	193	193	193	193	193	193	193	193	193	193	193	193	193	193	193	193	193	193	
ASSETS ON HAND	(BP)	143																								
DELIVERY FY 96 & PRIOR	(P)	0																								
FY 96 & PRIOR	(P)	0																								
FY 97	(P)					0	0	0	50																	
FY 98	(P)																									
FY 99	(P)																									
FY 00	(P)																									
FY 01	(P)																									
FY 02	(P)																									
FY 03	(P)																									
To Complete	(P)																									
TOTAL ASSETS	(C)	143	143	143	143	143	143	143	193	193	193	193	193	193	193	193	193	193	193	193	193	193	193	193	193	193
QTY OVER (+) OR SHORT (-)		-50	-50	-50	-50	-50	-50	-50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	193
D. REMARKS					E. RQMT (QTY)					TOTAL RQMT			INSTALLED		ON HAND AS OF / /96		FY 99 & PRIOR UNDELIVERED			UNFUNDED						
					1. APPN - OPN					193			0				50			0						
					2. APPN -																					
					3. PROCUREMENT LEADTIME 23					ADMIN 11			INITIAL ORDER 12		REORDER 12											

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TIME PHASED REQUIREMENT SCHEDULE P-23					A. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy								B. P-1 ITEM NOMENCLATURE SURVIVAL RADIO								C. DATE February 1998					
		FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				LATER
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
ACTIVE FORCE INVENTORY	(P)	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000
SCHOOLS/OTHER TRAINING	(P)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OTHER	(P)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL PHASED REQ	(C)	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000
ASSETS ON HAND	(BP)	0																								
DELIVERY FY 96 & PRIOR	(P)	0																								
FY 96 & PRIOR	(P)	0																								
FY 97	(P)																									
FY 98	(P)								0	0	100	150														
FY 99	(P)												0	150	225	225										
FY 00	(P)																250	250	250	250						
FY 01	(P)																				1196	1197	1197	1197		
FY 02	(P)																									6704
FY 03	(P)																									3830
To Complete	(P)																									2829
TOTAL ASSETS	(C)	0	0	0	0	0	0	0	0	0	0	100	250	250	400	625	850	1100	1350	1600	1850	3046	4243	5440	6637	20000
QTY OVER (+) OR SHORT (-)		-20000	-20000	-20000	-20000	-20000	-20000	-20000	-20000	-20000	-20000	-19900	-19750	-19750	-19600	-19375	-19150	-18900	-18650	-18400	-18150	-16954	-15757	-14560	-13363	0
D. REMARKS		E. RQMT (QTY)								TOTAL RQMT		INSTALLED		ON HAND AS OF / /96		FY 99 & PRIOR UNDELIVERED			UNFUNDED							
		1. APPN - OPN								20000		0				850			0							
		2. APPN -																								
		3. PROCUREMENT LEADTIME 17								ADMIN 5		INITIAL ORDER 12		REORDER 12												

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TIME PHASED REQUIREMENT SCHEDULE P-23					A. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy								B. P-1 ITEM NOMENCLATURE PRC-112 GPS								C. DATE Feb 1998				LATER	
		FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3		4
ACTIVE FORCE INVENTORY	(P)	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	
SCHOOLS/OTHER TRAINING	(P)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
OTHER	(P)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOTAL PHASED REQ	(C)	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	
ASSETS ON HAND	(BP)	0																								
DELIVERY FY 96 & PRIOR	(P)	0	0	200	300																					
FY 96 & PRIOR	(P)																									
FY 97	(P)																									
FY 98	(P)																									
FY 99	(P)																									
FY 00	(P)																									
FY 01	(P)																									
FY 02	(P)																									
FY 03	(P)																									
To Complete	(P)																									
TOTAL ASSETS	(C)	0	0	200	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	
QTY OVER (+) OR SHORT (-)		-500	-500	-300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
D. REMARKS				E. RQMT (QTY)								TOTAL RQMT		INSTALLED		ON HAND AS OF / /96		FY 99 & PRIOR UNDELIVERED		UNFUNDED						
				1. APPN - OPN								500		0				0		0						
				2. APPN -																						
				3. PROCUREMENT LEADTIME 19								ADMIN 7		INITIAL ORDER 12		REORDER 12										

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TIME PHASED REQUIREMENT SCHEDULE P-23					A. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy								B. P-1 ITEM NOMENCLATURE 3 PRC-112 P I (GPS) INTERROGATOR								C. DATE Feb 1998					LATER
		FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
ACTIVE FORCE INVENTORY	(P)	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	
SCHOOLS/OTHER TRAINING	(P)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
OTHER	(P)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOTAL PHASED REQ	(C)	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	
ASSETS ON HAND	(BP)	0																								
DELIVERY FY 96 & PRIOR	(P)	0																								
FY 96 & PRIOR	(P)	0	12	0	0																					
FY 97	(P)																									
FY 98	(P)																									
FY 99	(P)																									
FY 00	(P)																									
FY 01	(P)																									
FY 02	(P)																									
FY 03	(P)																									
To Complete	(P)																									
TOTAL ASSETS	(C)	0	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	
QTY OVER (+) OR SHORT (-)		-12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
D. REMARKS					E. RQMT (QTY)								TOTAL RQMT		INSTALLED		ON HAND AS OF / /96		FY 99 & PRIOR UNDELIVERED		UNFUNDED					
					1. APPN - OPN								12		0				0		0					
					2. APPN -																					
					3. PROCUREMENT LEADTIME 19								ADMIN 7		INITIAL ORDER 12		REORDER 12									

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TIME PHASED REQUIREMENT SCHEDULE P-23					A. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy								B. P-1 ITEM NOMENCLATURE PRC-112 UPGRADES								C. DATE Feb 1998				
	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				LATER
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
ACTIVE FORCE INVENTORY (P)	3676	3676	3676	3676	3676	3676	3676	3676	3676	3676	3676	3676	3676	3676	3676	3676	3676	3676	3676	3676	3676	3676	3676	3676	3676
SCHOOLS/OTHER TRAINING (P)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OTHER (P)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL PHASED REQ (C)	3676	3676	3676	3676	3676	3676	3676	3676	3676	3676	3676	3676	3676	3676	3676	3676	3676	3676	3676	3676	3676	3676	3676	3676	3676
ASSETS ON HAND (BP)	0																								
DELIVERY FY 96 & PRIOR (P)	0																								
FY 96 & PRIOR (P)	0																								
FY 97 (P)					0	0	420	420	420	416															
FY 98 (P)											501	501	501	497											
FY 99 (P)																									
FY 00 (P)																									
FY 01 (P)																									
FY 02 (P)																									
FY 03 (P)																									
To Complete (P)																									
TOTAL ASSETS (C)	0	0	0	0	0	0	420	840	1260	1676	2177	2678	3179	3676	3676	3676	3676	3676	3676	3676	3676	3676	3676	3676	3676
QTY OVER (+) OR SHORT (-)	-3676	-3676	-3676	-3676	-3676	-3676	-3256	-2836	-2416	-2000	-1499	-998	-497	0	0	0	0	0	0	0	0	0	0	0	0
D. REMARKS				E. RQMT (QTY)								TOTAL RQMT		INSTALLED		ON HAND AS OF / /96		FY 99 & PRIOR UNDELIVERED		UNFUNDED					
				1. APPN - OPN								3676		0				3676		0					
				2. APPN -																					
				3. PROCUREMENT LEADTIME 19								ADMIN 7		INITIAL ORDER 12		REORDER 12									

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TIME PHASED REQUIREMENT SCHEDULE P-23					A. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy									B. P-1 ITEM NOMENCLATURE COMBAT SURVIVOR EVADER LOCATOR								C. DATE Feb 1998				LATER
	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002					
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
ACTIVE FORCE INVENTORY	(P)	9000	9000	9000	9000	9000	9000	9000	9000	9000	9000	9000	9000	9000	9000	9000	9000	9000	9000	9000	9000	9000	9000	9000	9000	9000
SCHOOLS/OTHER TRAINING	(P)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OTHER	(P)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL PHASED REQ	(C)	9000	9000	9000	9000	9000	9000	9000	9000	9000	9000	9000	9000	9000	9000	9000	9000	9000	9000	9000	9000	9000	9000	9000	9000	9000
ASSETS ON HAND	(BP)	0																								
DELIVERY FY 96 & PRIOR	(P)	0																								
FY 96 & PRIOR	(P)	0																								
FY 97	(P)																									
FY 98	(P)								0	0	234	260														
FY 99	(P)											158	474	474	474	316										
FY 00	(P)																682	682	682	681						
FY 01	(P)																				700	700	700	700		
FY 02	(P)																									982
FY 03	(P)																									
To Complete	(P)																									101
TOTAL ASSETS	(C)	0	0	0	0	0	0	0	0	0	234	652	1126	1600	2074	2390	3072	3754	4436	5117	5817	6517	7217	7917	9000	
QTY OVER (+) OR SHORT (-)		-9000	-9000	-9000	-9000	-9000	-9000	-9000	-9000	-9000	-8766	-8348	-7874	-7400	-6926	-6610	-5928	-5246	-4564	-3883	-3183	-2483	-1783	-1083		0
D. REMARKS				E. RQMT (QTY)								TOTAL RQMT		INSTALLED		ON HAND AS OF / /96		FY 99 & PRIOR UNDELIVERED		UNFUNDED						
				1. APPN - OPN								9000		0				2390		0						
				2. APPN -																						
				3. PROCUREMENT LEADTIME 11								ADMIN 0		INITIAL ORDER 11		REORDER 11										

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TIME PHASED REQUIREMENT SCHEDULE P-23					A. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy								B. P-1 ITEM NOMENCLATURE LASER EYE PROTECTION								C. DATE Feb 1998					
		FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				LATER
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
ACTIVE FORCE INVENTORY	(P)	7800	7800	7800	7800	7800	7800	7800	7800	7800	7800	7800	7800	7800	7800	7800	7800	7800	7800	7800	7800	7800	7800	7800	7800	
SCHOOLS/OTHER TRAINING	(P)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
OTHER	(P)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOTAL PHASED REQ	(C)	7800	7800	7800	7800	7800	7800	7800	7800	7800	7800	7800	7800	7800	7800	7800	7800	7800	7800	7800	7800	7800	7800	7800	7800	7800
ASSETS ON HAND	(BP)	0																								
DELIVERY FY 96 & PRIOR	(P)	0																								
FY 96 & PRIOR	(P)	0																								
FY 97	(P)					106	159	55	0																	
FY 98	(P)																									
FY 99	(P)									30	90	97	0													
FY 00	(P)																	211	211	211	212					
FY 01	(P)																					468	468	468	467	
FY 02	(P)																									2000
FY 03	(P)																									1587
To Complete	(P)																									960
TOTAL ASSETS	(C)	0	0	0	0	106	265	320	320	350	440	537	537	537	537	537	537	748	959	1170	1382	1850	2318	2786	3253	7800
QTY OVER (+) OR SHORT (-)		-7800	-7800	-7800	-7800	-7694	-7535	-7480	-7480	-7450	-7360	-7263	-7263	-7263	-7263	-7263	-7052	-6841	-6630	-6418	-5950	-5482	-5014	-4547		0
D. REMARKS					E. RQMT (QTY)								TOTAL RQMT		INSTALLED		ON HAND AS OF / /96		FY 99 & PRIOR UNDELIVERED		UNFUNDED					
					1. APPN - OPN								7800		0		0		537		0					
					2. APPN -																					
					3. PROCUREMENT LEADTIME 21								ADMIN 7		INITIAL ORDER 14		REORDER 7									

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TIME PHASED REQUIREMENT SCHEDULE P-23					A. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy								B. P-1 ITEM NOMENCLATURE CWU-60/P								C. DATE Feb 1998					
		FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				LATER
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
ACTIVE FORCE INVENTORY	(P)	4350	4350	4350	4350	4350	4350	4350	4350	4350	4350	4350	4350	4350	4350	4350	4350	4350	4350	4350	4350	4350	4350	4350	4350	4350
SCHOOLS/OTHER TRAINING	(P)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OTHER	(P)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL PHASED REQ	(C)	4350	4350	4350	4350	4350	4350	4350	4350	4350	4350	4350	4350	4350	4350	4350	4350	4350	4350	4350	4350	4350	4350	4350	4350	4350
ASSETS ON HAND	(BP)	0																								
DELIVERY FY 96 & PRIOR	(P)	0																								
FY 96 & PRIOR	(P)	0	0	400	684	870	849	873	581																	
FY 97	(P)								93																	
FY 98	(P)																									
FY 99	(P)																									
FY 00	(P)																									
FY 01	(P)																									
FY 02	(P)																									
FY 03	(P)																									
To Complete	(P)																									
TOTAL ASSETS	(C)	0	0	400	1084	1954	2803	3676	4350	4350	4350	4350	4350	4350	4350	4350	4350	4350	4350	4350	4350	4350	4350	4350	4350	4350
QTY OVER (+) OR SHORT (-)		-4350	-4350	-3950	-3266	-2396	-1547	-674	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D. REMARKS				E. RQMT (QTY)								TOTAL RQMT			INSTALLED		ON HAND AS OF / /96		FY 99 & PRIOR UNDELIVERED				UNFUNDED			
				1. APPN - OPN								4350			0				2396				0			
				2. APPN -																						
				3. PROCUREMENT LEADTIME 24								ADMIN 9			INITIAL ORDER 15		REORDER 6									

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TIME PHASED REQUIREMENT SCHEDULE P-23					A. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy									B. P-1 ITEM NOMENCLATURE HEED								C. DATE Feb 1998					LATER
		FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002					
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
ACTIVE FORCE INVENTORY	(P)	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	
SCHOOLS/OTHER TRAINING	(P)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
OTHER	(P)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOTAL PHASED REQ	(C)	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	
ASSETS ON HAND	(BP)	0																									
DELIVERY FY 96 & PRIOR	(P)	0																									
FY 96 & PRIOR	(P)	1125	1125	1125	1125	600	309																				
FY 97	(P)						591																				
FY 98	(P)																										
FY 99	(P)																										
FY 00	(P)																										
FY 01	(P)																										
FY 02	(P)																										
FY 03	(P)																										
To Complete	(P)																										
TOTAL ASSETS	(C)	1125	2250	3375	4500	5100	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	
QTY OVER (+) OR SHORT (-)		-4875	-3750	-2625	-1500	-900	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
D. REMARKS		E. RQMT (QTY)								TOTAL RQMT		INSTALLED		ON HAND AS OF / /96		FY 99 & PRIOR UNDELIVERED		UNFUNDED									
		1. APPN - OPN								6000		0		4100		900		0									
		2. APPN -																									
		3. PROCUREMENT LEADTIME 17								ADMIN 9		INITIAL ORDER 8		REORDER 5													

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TIME PHASED REQUIREMENT SCHEDULE P-23					A. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy								B. P-1 ITEM NOMENCLATURE Aircrew Integrated Survival /Armor Protection								C. DATE Feb 1998					
		FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				LATER
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
ACTIVE FORCE INVENTORY	(P)	3568	3568	3568	3568	3568	3568	3568	3568	3568	3568	3568	3568	3568	3568	3568	3568	3568	3568	3568	3568	3568	3568	3568	3568	
SCHOOLS/OTHER TRAINING	(P)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
OTHER	(P)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOTAL PHASED REQ	(C)	3568	3568	3568	3568	3568	3568	3568	3568	3568	3568	3568	3568	3568	3568	3568	3568	3568	3568	3568	3568	3568	3568	3568	3568	3568
ASSETS ON HAND	(BP)	850																								
DELIVERY FY 96 & PRIOR	(P)	0																								
FY 96 & PRIOR	(P)	0	0	450	391																					
FY 97	(P)																									
FY 98	(P)					0	0	0	600	600	375															
FY 99	(P)										175	127	0													
FY 00	(P)																									
FY 01	(P)																									
FY 02	(P)																									
FY 03	(P)																									
To Complete	(P)																									
TOTAL ASSETS	(C)	850	850	1300	1691	1691	1691	1691	2291	2891	3441	3568	3568	3568	3568	3568	3568	3568	3568	3568	3568	3568	3568	3568	3568	3568
QTY OVER (+) OR SHORT (-)		-2718	-2718	-2268	-1877	-1877	-1877	-1877	-1277	-677	-127	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D. REMARKS				E. RQMT (QTY)								TOTAL RQMT		INSTALLED		ON HAND AS OF / /96		FY 99 & PRIOR UNDELIVERED		UNFUNDED						
				1. APPN - OPN								3568		0		850		1877		0						
				2. APPN -																						
				3. PROCUREMENT LEADTIME 7								ADMIN 0		INITIAL ORDER 7		REORDER 5										

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TIME PHASED REQUIREMENT SCHEDULE P-23					A. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy								B. P-1 ITEM NOMENCLATURE Passenger and Troop Survival System								C. DATE Feb 1998					
		FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				LATER
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
ACTIVE FORCE INVENTORY	(P)	8652	8652	8652	8652	8652	8652	8652	8652	8652	8652	8652	8652	8652	8652	8652	8652	8652	8652	8652	8652	8652	8652	8652	8652	8652
SCHOOLS/OTHER TRAINING	(P)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OTHER	(P)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL PHASED REQ	(C)	8652	8652	8652	8652	8652	8652	8652	8652	8652	8652	8652	8652	8652	8652	8652	8652	8652	8652	8652	8652	8652	8652	8652	8652	8652
ASSETS ON HAND	(BP)	0																								
DELIVERY FY 96 & PRIOR	(P)	0																								
FY 96 & PRIOR	(P)	0	0	141	423	423	423	277	800	1200	551															
FY 97	(P)																									
FY 98	(P)																									
FY 99	(P)													900	963	0	0									
FY 00	(P)																									
FY 01	(P)																									
FY 02	(P)																									
FY 03	(P)																									
To Complete	(P)																									2551
TOTAL ASSETS	(C)	0	0	141	564	987	1410	1687	2487	3687	4238	4238	4238	5138	6101	6101	6101	6101	6101	6101	6101	6101	6101	6101	6101	8652
QTY OVER (+) OR SHORT (-)		-8652	-8652	-8511	-8088	-7665	-7242	-6965	-6165	-4965	-4414	-4414	-4414	-3514	-2551	-2551	-2551	-2551	-2551	-2551	-2551	-2551	-2551	-2551	-2551	0
D. REMARKS				E. RQMT (QTY)								TOTAL RQMT		INSTALLED		ON HAND AS OF / /96		FY 99 & PRIOR UNDELIVERED		UNFUNDED						
				1. APPN - OPN								8652		0				5114		0						
				2. APPN -																						
				3. PROCUREMENT LEADTIME 13								ADMIN 4		INITIAL ORDER 9		REORDER 8										

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TIME PHASED REQUIREMENT SCHEDULE P-23					A. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy								B. P-1 ITEM NOMENCLATURE Mini-Raft Backpack								C. DATE Feb 1998				LATER	
		FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
ACTIVE FORCE INVENTORY	(P)	5900	5900	5900	5900	5900	5900	5900	5900	5900	5900	5900	5900	5900	5900	5900	5900	5900	5900	5900	5900	5900	5900	5900	5900	5900
SCHOOLS/OTHER TRAINING	(P)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OTHER	(P)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL PHASED REQ	(C)	5900	5900	5900	5900	5900	5900	5900	5900	5900	5900	5900	5900	5900	5900	5900	5900	5900	5900	5900	5900	5900	5900	5900	5900	5900
ASSETS ON HAND	(BP)	0																								
DELIVERY FY 96 & PRIOR	(P)	0																								
FY 96 & PRIOR	(P)	0	0	0	150	150	100	200	378																	
FY 97	(P)						40	40																		
FY 98	(P)																									
FY 99	(P)											250	35													
FY 00	(P)																									
FY 01	(P)																	385	385	385	386					
FY 02	(P)																				385	385	385	386		
FY 03	(P)																									
To Complete	(P)																									1475
TOTAL ASSETS	(C)	0	0	0	150	300	440	680	1058	1058	1058	1308	1343	1343	1343	1343	1728	2113	2498	2884	3269	3654	4039	4425	5900	
QTY OVER (+) OR SHORT (-)		-5900	-5900	-5900	-5750	-5600	-5460	-5220	-4842	-4842	-4842	-4592	-4557	-4557	-4557	-4557	-4172	-3787	-3402	-3016	-2631	-2246	-1861	-1475	0	
D. REMARKS		E. RQMT (QTY)								TOTAL RQMT				INSTALLED		ON HAND AS OF / /96		FY 99 & PRIOR UNDELIVERED			UNFUNDED					
		1. APPN - OPN								5900				0		978		1043								
		2. APPN -																								
		3. PROCUREMENT LEADTIME				10				ADMIN				0		INITIAL ORDER		10		REORDER			9			

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TIME PHASED REQUIREMENT SCHEDULE P-23						A. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy								B. P-1 ITEM NOMENCLATURE Navy Combat Edge								C. DATE Feb 1998				
		FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				LATER
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
ACTIVE FORCE INVENTORY	(P)	1821	1821	1821	1821	1821	1821	1821	1821	1821	1821	1821	1821	1821	1821	1821	1821	1821	1821	1821	1821	1821	1821	1821	1821	1821
SCHOOLS/OTHER TRAINING	(P)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OTHER	(P)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL PHASED REQ	(C)	1821	1821	1821	1821	1821	1821	1821	1821	1821	1821	1821	1821	1821	1821	1821	1821	1821	1821	1821	1821	1821	1821	1821	1821	1821
ASSETS ON HAND	(BP)	0																								
DELIVERY FY 96 & PRIOR	(P)	0																								
FY 96 & PRIOR	(P)					0	0	100	55																	
FY 97	(P)								32	115																
FY 98	(P)										120	120	90													
FY 99	(P)													90	90	57	0									
FY 00	(P)																120	120	119							
FY 01	(P)																			93	93	93	94			
FY 02	(P)																									
FY 03	(P)																									
To Complete	(P)																									100
TOTAL ASSETS	(C)	0	0	0	0	0	0	100	187	302	422	542	632	722	812	869	989	1109	1229	1348	1441	1534	1627	1721	1721	1821
QTY OVER (+) OR SHORT (-)		-1821	-1821	-1821	-1821	-1821	-1821	-1721	-1634	-1519	-1399	-1279	-1189	-1099	-1009	-952	-832	-712	-592	-473	-380	-287	-194	-100	-100	0
D. REMARKS						E. RQMT (QTY)					TOTAL RQMT			INSTALLED		ON HAND AS OF / /96		FY 99 & PRIOR UNDELIVERED			UNFUNDED					
						1. APPN - OPN					1821			0				869			0					
						2. APPN -																				
						3. PROCUREMENT LEADTIME 12					ADMIN 0			INITIAL ORDER 12		REORDER 12										

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		FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				LATER		
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4			
ACTIVE FORCE INVENTORY	(P)	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	
SCHOOLS/OTHER TRAINING	(P)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
OTHER	(P)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOTAL PHASED REQ	(C)	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	
ASSETS ON HAND	(BP)	0																										
DELIVERY FY 96 & PRIOR	(P)	0																										
FY 96 & PRIOR	(P)	0																										
FY 97	(P)																											
FY 98	(P)																											
FY 99	(P)												80	120	120	80	0		80	80	80	60						
FY 00	(P)																	80	80	80	60							
FY 01	(P)																											
FY 02	(P)																											
FY 03	(P)																											
To Complete	(P)																										500	
TOTAL ASSETS	(C)	0	0	0	0	0	0	0	0	0	0	0	80	200	320	400	400	480	560	640	700	700	700	700	700	700	1200	
QTY OVER (+) OR SHORT (-)		-1200	-1200	-1200	-1200	-1200	-1200	-1200	-1200	-1200	-1200	-1120	-1000	-880	-800	-800	-720	-640	-560	-500	-500	-500	-500	-500	-500	-500	0	
D. REMARKS				E. RQMT (QTY)								TOTAL RQMT				INSTALLED		ON HAND AS OF / /96		FY 99 & PRIOR UNDELIVERED				UNFUNDED				
				1. APPN - OPN								1200				0				400				0				
				2. APPN -																								
				3. PROCUREMENT LEADTIME 10								ADMIN 0				INITIAL ORDER 10		REORDER 6										

DD for 2447, JUN 86

P-1 SHOPPING LIST

CLASSIFICATION:

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CLASSIFICATION:

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TIME PHASED REQUIREMENT SCHEDULE P-23						A. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy								B. P-1 ITEM NOMENCLATURE Night Vision Devices								C. DATE Feb 1998				LATER
		FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
ACTIVE FORCE INVENTORY	(P)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
SCHOOLS/OTHER TRAINING	(P)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OTHER	(P)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL PHASED REQ	(C)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
ASSETS ON HAND	(BP)	0																								
DELIVERY FY 96 & PRIOR	(P)	0																								
FY 96 & PRIOR	(P)	0																								
FY 97	(P)					21	63	67	46																	
FY 98	(P)								30	90	96	0														
FY 99	(P)											135	135	135	131	0	0									
FY 00	(P)															51										
FY 01	(P)																									
FY 02	(P)																									
FY 03	(P)																									
To Complete	(P)																									
TOTAL ASSETS	(C)	0	0	0	0	21	84	151	227	317	413	548	683	818	949	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
QTY OVER (+) OR SHORT (-)		-1000	-1000	-1000	-1000	-979	-916	-849	-773	-683	-587	-452	-317	-182	-51	0	0	0	0	0	0	0	0	0	0	0
D. REMARKS				E. RQMT (QTY)								TOTAL RQMT		INSTALLED		ON HAND AS OF / /96		FY 99 & PRIOR UNDELIVERED		UNFUNDED						
				1. APPN - OPN								1000		0				1898		0						
				2. APPN -																						
				3. PROCUREMENT LEADTIME 7								ADMIN 0		INITIAL ORDER 7		REORDER 6										

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P-1 SHOPPING LIST

CLASSIFICATION:

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CLASSIFICATION:

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TIME PHASED REQUIREMENT SCHEDULE P-23					A. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy								B. P-1 ITEM NOMENCLATURE Low Profile Flotation Collar								C. DATE Feb 1998				
	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				LATER
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
ACTIVE FORCE INVENTORY (P)	10700	10700	10700	10700	10700	10700	10700	10700	10700	10700	10700	10700	10700	10700	10700	10700	10700	10700	10700	10700	10700	10700	10700	10700	
SCHOOLS/OTHER TRAINING (P)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
OTHER (P)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOTAL PHASED REQ (C)	10700	10700	10700	10700	10700	10700	10700	10700	10700	10700	10700	10700	10700	10700	10700	10700	10700	10700	10700	10700	10700	10700	10700	10700	
ASSETS ON HAND (BP)	0																								
DELIVERY FY 96 & PRIOR (P)	0																								
FY 96 & PRIOR (P)	0																								
FY 97 (P)					750	750	165	165	165	166															
FY 98 (P)								100	150	150	150	50													
FY 99 (P)											600	600	600	550											
FY 00 (P)																1397	1397	1397	1398						
FY 01 (P)																									
FY 02 (P)																									
FY 03 (P)																									
To Complete (P)																									
TOTAL ASSETS (C)	0	0	0	0	750	1500	1665	1930	2245	2561	3311	3961	4561	5111	6508	7905	9302	10700	10700	10700	10700	10700	10700	10700	
QTY OVER (+) OR SHORT (-)	-10700	-10700	-10700	-10700	-9950	-9200	-9035	-8770	-8455	-8139	-7389	-6739	-6139	-5589	-4192	-2795	-1398	0	0	0	0	0	0	0	
D. REMARKS				E. RQMT (QTY)								TOTAL RQMT		INSTALLED		ON HAND AS OF / /96		FY 99 & PRIOR UNDELIVERED		UNFUNDED					
				1. APPN - OPN								10700		0				5111							
				2. APPN -																					
				3. PROCUREMENT LEADTIME 6								ADMIN 0		INITIAL ORDER 6		REORDER 6									

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P-1 SHOPPING LIST
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CLASSIFICATION:

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CLASSIFICATION:

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BUDGET ITEM JUSTIFICATION SHEET P-40									DATE: February 1998				
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY BA-3: NAVY/AVIATION SUPPORT EQUIPMENT								P-1 ITEM NOMENCLATURE/LINE ITEM # Airborne Mine Countermeasures SUBHEAD: 73S0 LI:424800					
Program Element for Code B Items: N/A								OTHER RELATED PROGRM ELEMENTS N/A					
	Prior Years	ID Code	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total
QUANTITY	N/A	A											0
EQUIPMENT COST (In Millions)	N/A	A	N/A	N/A	\$13.1	\$19.5	\$39.4	\$33.5	\$41.9	\$50.7	\$22.2	N/A	\$220
SPARES COST (In Millions)	N/A	A	N/A	N/A	\$1.0	\$2.0	\$1.9	\$1.9	\$2.0	\$0.4	\$2.0	N/A	\$11
PROGRAM DESCRIPTION/JUSTIFICATION: Airborne Mine Countermeasures (AMCM) Equipment is used by MH-53E helicopters to counter the threat of sea mines. The equipment is divided into two broad categories, minesweeping and minehunting. (1) Minesweeping is performed by mechanical or influence sweeps. In mechanical sweeping, the mine mooring is severed by the sweep gear allowing the mine to float to the surface where it is destroyed. In influence sweeping, a magnetic or acoustic field which simulates the magnetic/acoustic signature of a ship is introduced into the water. This field causes the mine mechanism to actuate. (2) In mine hunting, the object is to actually locate and classify, and mark or neutralize mines, usually by means of high resolution sonar. AMCM squadrons currently have mechanical, magnetic, and acoustic sweeping capabilities, and mine surveillance and marking capabilities. Their mission is to locate, classify and neutralize moored and bottom mines. S0020 - Funds provided are for the modification of systems to accommodate replacement of subsystems/components because of obsolescence. ECP's are analyzed, prioritized and screened to accommodate replacement of subsystems/components. S0060 - Funds provided are for the procurement of A/N37U-1 Mechanical Minesweeping Systems. Thirty-four systems are to be procured at an estimated total cost of \$14M. 25 units were procured in FY96 and prior. 9 units were procured in FY97. S0061 - The upgraded MK-105 magnetic minesweeping system is a hydrofoil platform that carries a turbo-generator power pack and is towed by a MH-53E helicopter, allowing for safe, high speed sweeping of course magnetic influence mines at twice the output of the current MK-105. The technological upgrade increases supportability, reliability and maintainability (R&M), and increases operational effectiveness. ECP's are analyzed, prioritized and screened to accommodate replacement of subsystems/components because of obsolescence. Funding for this effort is designated in all fiscal years. Twenty units are to be procured at an estimated total cost of \$87.8M. Three units were included in the FY96 budget year, with seventeen units to be procured in subsequent years. S0062 - AN/AQS-14A is a digital upgrade to the electronics used in the airborne console for the AQS-14 which has been in the fleet since 1984. The requirement for this upgrade is driven by parts obsolescence, the need for improved performance, and advances in the state of the art. S0063 - Magnetic Cable is a new magnetic sweep array with an extended operational life and the capability to handle twice the current of existing cable. Additionally, cable diameter and bend radius are maintained to allow continued use of existing support equipment. Funding is provided to procure twenty-five cables for an estimated total cost of \$3M. S0066 - C4I funding provided in FY98 and FY99 will purchase upgraded NDI equipment to provide an initial C4I capability at an estimated total cost of \$4.5M. S0072 - SWIMS - Shallow Water Minesweeping System - Provides a self-contained, high speed magnetic/acoustic shallow water mine sweep.													

CLASSIFICATION: UNCLASSIFIED

WEAPONS SYSTEM COST ANALYSIS P-5								Weapon System N/A			DATE: February 1998			
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA-3: NAVY/AVIATION SUPPORT EQUIPMENT						ID Code A	P-1 ITEM NOMENCLATURE/SUBHEAD Airborne Mine Countermeasures SUBHEAD: 73S0 LI:424800							
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS											
						FY 1997			FY 1998			FY 1999		
			QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
S0020	MODIFICATION <u>N852</u>	A						554			770			635
S0060	A/N37U-1 MECH MINESWEEPING	A				9	498	4,483						
S0061	<u>MK-105 UPGRADE</u> PUBLICATIONS/TECHNICAL DATA PRODUCTION SUPPORT - TRAINING STRUTS - NON-RECURRING STRUTS - RECURRING SUPPORT EQUIPMENT CONVERSION S0061 TOTAL	A							2	4,300	8,600	3	4,300	12,900
								2,500			1,475			381
											900			400
								2,000			2,255			2,800
								4,500			13,230			600
														17,081
S0062	<u>AN/AQS-14A KITS</u> PUBLICATIONS/TECHNICAL DATA COMPONENTS SUPPORT EQUIPMENT PRODUCT SUPPORT RELIABILITY ECPs S0062 TOTAL	A				5	440	2,200	6	367	2,202	6	448	2,688
								100			200			
								200			380			
								100			298			
								432						4,124
								3,032			3,080			6,812
S0063	<u>MAGNETIC CABLE</u> SUPPORT EQUIPMENT PUBLICATIONS/TECHNICAL DATA PRODUCTION SUPPORT - TRAINING S0063 TOTAL	A							12	85	1,020	13	85	1,105
											200			75
											200			120
											55			0
											1,475			1,300
S0072	SWIMS													10,000
S0066	C4I UPGRADES	A						575			992			3,578
TOTAL								13,144			19,547			39,406

DD FORM 2446, JUN 86

P-1 SHOPPING LIST

CLASSIFICATION:

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CLASSIFICATION:

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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System N/A		A. DATE February 1998			
B. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA-3: NAVY/AVIATION SUPPORT EQUIPMENT					C. P-1 ITEM NOMENCLATURE Airborne Mine Countermeasures				SUBHEAD 73S0	
Cost Element/ FISCAL YEAR	QTY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	IF NO WHEN AVAILABLE
FISCAL YEAR (97) A/N37U-1 MECH MINESWEEPING-S0060 AN/AQS-14A KITS-S0062	9 5	498 440	NAVSEA NAVSEA		OPTION OPTION	GSS, GROTON, CT NORTHROP-GRUMMAN ANNAPOLIS,MD	11/96 6/97	11/97 12/97	YES YES	
FISCAL YEAR (98) MK-105 UPGRADE-S0061 AN/AQS-14A KITS-S0062 MAGNETIC CABLE-S0063	2 6 12	4300 367 85	NAVSEA NAVSEA NAVSEA		SS/FFP OPTION SS/FFP	EDO CORP, COLLEGE PT, NY NORTHROP-GRUMMAN, COGENT, NEWPORT	3/98 11/97 8/98	5/00 8/98 11/98	NO YES NO	
FISCAL YEAR (99) MK-105 UPGRADE-S0061 MAGNETIC CABLE-S0063 AN/AQS-14A KITS-S0062	3 13 6	4300 85 448	NAVSEA NAVSEA NAVSEA		OPTION OPTION OPTION	EDO CORP, COLLEGE PT, NY COGENT, NEWPORT NORTHROP-GRUMMAN	1/99 10/98 11/98	3/01 5/99 8/99	NO YES YES	
D. REMARKS										

FY 1998/99 BUDGET PRODUCTION SCHEDULE, P-21						DATE		February 1998			
APPROPRIATION/BUDGET ACTIVITY						Weapon System		P-1 ITEM NOMENCLATURE			
OTHER PROCUREMENT, NAVY						N/A		Airborne Mine Countermeasure			
		Production Rate			Procurement Leadtimes						
Item	Manufacturer's Name and Location	MSR	1-8-5	MAX	ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure	
AN/AQS-14A KITS	Northrop Gruman	1	6	6	3	3	0	0	7		
	Annapolis, MD				0	3	0	4	7		

ITEM / MANUFACTURER	F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 1997												FISCAL YEAR 1998												B A L			
						1996			CALENDAR YEAR 1997									CALENDAR YEAR 1998															
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				
AN/AQS-14A KITS	96		4	0	4						A																						0
" "	97		5	0	5										A																		0
" "	98		6	0	6																									6			0
" "	99		6	0	6																												0

ITEM / MANUFACTURER	F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 1999												FISCAL YEAR 2000												B A L			
						1998			CALENDAR YEAR 1999									CALENDAR YEAR 2000															
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				
AN/AQS-14A KITS	96		4	4	0																												0
" "	97		6	6	0																												0
" "	98		6	6	0																												0
" "	99		6	0	6		A																										0

Remarks:

DD Form 2445, JUL 87	Previous editions are obsolete	P-1 SHOPPING LIST	
311 / 244		ITEM NO 136 PAGE 5	Exhibit P-21 Production Schedule

DD Form 2445, JUL 87	Previous editions are obsolete	P-1 SHOPPING LIST		
311 / 244		ITEM NO 136	PAGE 8	Exhibit P-21 Production Schedule

CLASSIFICATION:

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET P-40										DATE: FEBRUARY 1998			
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY								P-1 ITEM NOMENCLATURE LAMPS MK III SHIPBOARD EQUIPMENT					
Program Element for Code B Items:								Other Related Program Elements					
	Prior Years	ID Code	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total
QUANTITY													
COST (In Millions)	\$379.1		\$6.1	\$14.5	\$4.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0		\$403.6
<p>The LAMPS MK III Ship/Air Weapon System is a computer integrated ship/helicopter system that increases the effectiveness of surface combatants. The Weapon System is a multi-approach funded program. The OPN-3 program funds the LAMPS shipboard equipment for installation in existing ships being backfitted with the LAMPS MK III Upgrade. Procured under this line are:</p> <p>(1) AN/SRQ-4, a shipboard terminal data transmission device.</p> <p>(2) The Recovery, Assist, Securing and Traversing (RAST) System; the Horizon Reference Set, and Flight Deck Status and Signal System.</p> <p>(3) The Alternate Traversing System (ATS) replaces the RAST as an interim system for the SH-60B. The ATS consists of a C-130 cargo winch and associated ground handling equipment for straightening and traversing the aircraft under limited sea state conditions.</p> <p>(4) Acoustic Processor DDG-993, a Sonar Signal Processing System.</p> <p>The LAMPS MK III Upgrade is comprised of the above equipment and is to be installed aboard DDG-993 class ships. The AN/SRQ-4 is an electronic device which receives electronic surveillance countermeasures, radar video, and acoustic data; and, transmits secure voice, shipboard computer, and air navigation data. The ATS is used to launch and recover LAMPS MK III helicopters from LAMPS ships. The acoustic Processor accepts acoustic data and selects, records, reproduces, processes, and displays the data as controlled by the Acoustic Sensor Operator.</p> <p>FY97 supports close-out of the LAMPS MK III Upgrade program.</p>													

CLASSIFICATION:

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CLASSIFICATION: **UNCLASSIFIED**

WEAPONS SYSTEM COST ANALYSIS										Weapon System						DATE:							
P-5																			FEBRUARY 1998				
APPROPRIATION/BUDGET ACTIVITY										ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD												
Other Procurement, Navy																							
BA-3 AVIATION SUPPORT EQUIPMENT											LAMPS MK III SHIPBOARD EQUIPMENT - U3S1												
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS																				
			Prior Years	FY 1995			FY 1996			FY 1997			FY 1998			FY 1999							
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost					
S1005	SYSTEM INTEGRATION					700			728														
S1009	ACOUSTIC PROCESSOR			4	275	1,100																	
S1800	INTEGRATED LOGISTICS SUPPORT					100			100														
S1830	PRODUCTION ENGINEERING QA/TE					517			300														
S1900	INSTALLATION OF EQUIPMENT (FMP)					3,660			13,336			3,990											
	PRIOR YEARS		379,058																				
			379,058	4	275	6,077			14,464			3,990			0			0					

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P3A		INDIVIDUAL MODIFICATION																								
MODELS OF SYSTEM AFFECTED:		DDG-993 CLASS SHIPS										TYPE MODIFICATION:										MODIFICATION TITLE: LAMPS MK III UPGRADE				
DESCRIPTION/JUSTIFICATION: The LAMPS MK III Upgrade SHIPALT 334, installs and integrates LAMPS capability on DDG-993. The LAMPS MK III system is a computer integrated ship-helicopter weapons system that greatly increases the effectiveness of surface combatants and consists of the Acoustic Processor, unique LAMPS MK III data link (AN/SRQ-4), and the Helicopter Landing System or Alternate Traversing System.																										
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:																										
		FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL		
		QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	
FINANCIAL PLAN (IN MILLIONS)																										
RDT&E																									0	
PROCUREMENT																									0	
INSTALLATION KITS																									0	
INSTALLATION KITS - UNIT COST																									0	
INSTALLATION KITS NONRECURRING																									0	
EQUIPMENT				4	1,100																			4	1,100	
EQUIPMENT NONRECURRING																									0	
ENGINEERING CHANGE ORDERS																									0	
DATA																									0	
TRAINING EQUIPMENT																									0	
SUPPORT EQUIPMENT																									0	
INTEGRATED LOGISTICS SUPPORT					100		100																		200	
FIELD ACTIVITY SUPPORT					1217		1028																		2,245	
INSTALL COST					3,660	1	13,336		3,990															1	20,986	
PRIOR YEARS			379,058																						379,058	
TOTAL PROCUREMENT			379,058		6,077		14,464		3,990		0		0		0		0		0		0				403,589	

CLASSIFICATION: **UNCLASSIFIED**

P3A (Continued)

INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: DDG-993 CLAS SHIPS MODIFICATION TITLE: LAMPS MK III UPGRADE

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: N/A

ADMINISTRATIVE LEADTIME: N/A

PRODUCTION LEADTIME: N/A

CONTRACT DATES: FY 1997: N/A

FY 1998: N/A

FY 1999: N/A

DELIVERY DATE: FY 1997: N/A

FY 1998: N/A

FY 1999: N/A

(\$ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
PRIOR YEARS FY90-94				3660																				3,660
FY 1995 EQUIPMENT					1	13,336		3,990															1	17,326
FY 1996 EQUIPMENT																								
FY 1997 EQUIPMENT																								
FY 1998 EQUIPMENT																								
FY 1999 EQUIPMENT																								
FY 2000 EQUIPMENT																								
FY 2001 EQUIPMENT																								
FY 2002 EQUIPMENT																								
FY 2003 EQUIPMENT																								
TO COMPLETE																								
TOTAL INSTALLS				3660	1	13,336		3,990															1	20,986

INSTALLATION SCHEDULE:

		FY 1996 & Prior				FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4						
In	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1				
Out	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1				

P-3A

CLASSIFICATION:

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET P-40								DATE: February 1998				
APPROPRIATION/BUDGET ACTIVITY - 3 OTHER PROCUREMENT, NAVY/AVIATION SUPPORT EQUIPMENT							P-1 ITEM NOMENCLATURE: RECONNAISSANCE ELECTRONIC WARFARE REWSON PHOTOGRAPHIC EQUIPMENT - Y3S4					
Program Element for Code B Items: BA 3 - AVIATION SUPPORT EQUIPMENT							Other Related Program Elements					
	Prior Years	ID Code	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total
QUANTITY												
COST (In Millions)	54.907		0.6	0.7	0.7	0.9	1.1	1.1	1.1	1.2	CONT	CONT
<p>REWSON: Reconnaissance Electronic Warfare Special Operations Navy</p> <p>This line procures photographic film processing, printing, and film interpretation equipment for the exclusive support of the on-going intelligence mission of CV/CVNs. Specifically, this equipment primarily supports the mission of the F-14 borne Tactical Airborne Reconnaissance Pod System (TARPS) as well as related Carrier Intelligence Center (CVIC) photographic requirements, and the hand held intelligence photography collected by the embarked Airwing (nine squadrons) and deployed Carrier Battle Group (CVBG). The CVBG normally consists of the CV/CVN and its support ships.</p> <p>Also, this equipment supports the photographic intelligence that is disseminated from internal and National sources to the Airwing (CVW) and CVBG. TARPS imagery is often provided to in-theater NATO forces as well. TARPS remains the only tactical aerial photographic reconnaissance asset in theater and is directly controlled by the Theater Commander.</p> <p>This line also procures digital equipment for the exploitation, interpretation and printing of digital imagery downlinked from TARPS. The digital suites can be expanded into the future to be used for exploitation of video imagery from tactical and strategic reconnaissance systems (including FLIR).</p> <p>The FY96-03 funds are continuing to procure the needed inventory objective of subject equipments. They are also providing new equipment for scanning and digital dissemination of TARPS film imagery.</p>												

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WEAPONS SYSTEM COST ANALYSIS P-5						Weapon System								DATE: February 1998	
APPROPRIATION/BUDGET ACTIVITY - 3 OTHER PROCUREMENT, NAVY/AVIATION SUPPORT EQUIPMENT						ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD REWSON PHOTOGRAPHIC EQUIPMENT - Y3S4								
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS												
			Prior Years	FY 1996			FY 1997			FY 1998			FY 1999		
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
S4019	MISC SMALL EQUIPMENT & ECPS		2,025			228			0			61			116
S4830	PRODUCTION ENGINEERING & LOGISTICS		718			361			286			149			259
S4100	DIGITAL BASE STATION VARIOUS OTHER COSTS, FY 95 & PRIOR *		52,164			0	3	150	450	3	155	465	3	160	480
*The amount identified against this cost element reflects total prior year funding associated with cost elements no longer financed in FY 1996 and beyond.															
			54,907			589			736			675			855

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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System		A. DATE February 1998			
B. APPROPRIATION/BUDGET ACTIVITY - 3 OTHER PROCUREMENT, NAVY AVIATION SUPPORT EQUIPMENT					C. P-1 ITEM NOMENCLATURE REWSON PHOTOGRAPHIC EQUIPMENT - Y3S4					
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
S4100 DIGITAL BASE STATION										
FY 1997	3	150	NRAD, Philadelphia	Apr-97	C/MIPR/FP	TBD	Jun-97	Sep-97	YES	N/A
FY 1998	3	155	NRAD, Philadelphia	Apr-98	C/MIPR/FP	TBD	Jun-98	Sep-98	YES	N/A
FY 1999	3	160	NRAD, Philadelphia	Apr-99	C/MIPR/FP	TBD	Jun-99	Sep-99	YES	N/A
D. REMARKS										

DD Form 2445, JUL 87 Previous editions are obsolete P-1 SHOPPING LIST
 311 / 244 **ITEM NO 138** **PAGE 4** Exhibit P-21 Production Schedule

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Exhibit P-20, Requirements Study				APPROPRIATION/BUDGET ACTIVITY - 3 AIRCRAFT PROCUREMENT, NAVY			DATE: February 1998	
P-1 ITEM NOMENCLATURE REWSON PHOTOGRAPHIC EQUIPMENT - Y3S4				Admin Leadtime (after Oct1): 8 mos			Prod Leadtime : 3 mos	
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
Buy Summary	0	3	3	3	4	4	4	4
Unit Cost	0	150	155	160	165	170	175	180
Total Cost	0	450	465	480	660	680	700	720
Asset Dynamics								
Beginning Asset Position	0	0	3	6	9	13	17	21
Deliveries from all prior year funding	0	0	0	0	0	0	0	0
Deliveries from FY 1997 funding	0	3	0	0	0	0	0	0
Deliveries from FY 1998 funding	0	0	3	0	0	0	0	0
Deliveries from FY 1999 funding	0	0	0	3	0	0	0	0
Deliveries from subsequent years' funding	0	0	0	0	4	4	4	4
Other Gains	0	0	0	0	0	0	0	0
Combat Losses/Usage	0	0	0	0	0	0	0	0
Training Losses/Usage	0	0	0	0	0	0	0	0
Test Losses/Usage	0	0	0	0	0	0	0	0
Other Losses/Usage	0	0	0	0	0	0	0	0
Disposals/Retirements/Attritions/etc.	0	0	0	0	0	0	0	0
End of Year Asset Position	0	3	6	9	13	17	21	25
Inventory Objective or Current Authorized Allowance	54	54	54	54	54	54	54	54
Inventory Objective 54	Actual Training Expenditures	Other than Training Usage		Disposals (Vehicles/Other)		Vehicles Eligible for FY 1998 Replacement:		Aircraft: TOAI:
Assets Rqd For Combat Loads:	FY 1996 thru XXXXXX:	FY 1996 thru XXXXXX:		FY 1996 thru XXXXXX:		Vehicles Eligible for FY 1999 Replacement:		PAA: TAI
WRM Rqmt:	FY 1995:	FY 1995:		FY 1995:		Vehicle Augment:		Attrition Res:
Pipeline:	FY 1994:	FY 1994:		FY 1994:				BAI
Other: 54	FY 1993:	FY 1993:		FY 1993:				Inactive Inv:
TOTAL:								Storage:
Remarks:								
Inventory objective of 54 equals:								
Four digital base stations per ship (4*12=48) 48								
Two digital base stations each for three shore activities (2*3=6) 6								
54								

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BUDGET ITEM JUSTIFICATION SHEET P-40								DATE: February 1998				
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/ BA 3 - Aviation Support Equipment							P-1 ITEM NOMENCLATURE STOCK SURVEILLANCE EQUIPMENT					
Program Element for Code B Items:							Other Related Program Elements					
	Prior Years	ID Code	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total
QUANTITY												
COST (In Millions)	\$31.2		\$1.5	\$1.6	\$1.5	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$35.9
<p>PROGRAM DESCRIPTION/JUSTIFICATION/EXECUTION: The NAVAIRSYSCOM (AIR-3.1.1A) Stock Surveillance Equipment (SRV) Program furnishes varied specialized and ancillary test equipment/systems for air-to-air and air-to-ground missiles, ordnance, ammunition and their related components. The SRV Program directly supports the Systems Effectiveness Engineering (SEE) Program. The SRV Program helps to provide accurate indicators for Fleet readiness in regard to safety, serviceability, reliability, availability, quality and mission effectiveness. The following SEE activities participate in the SRV Program: NAVSURFWARCENDIV Crane, NAVSURFWARCENDIV Indian Head, and NAVAIRWARCENDWPNDIV Point Mugu.</p> <p>NAVSURFWARCENDIVs Crane and Indian Head are responsible for procurement of missile and ordnance energetic test equipment. NAVAIRWARCENWPNDIV Point Mugu is responsible for procurement of missile electronic component test and analysis equipment to analyze missile firing telemetry data.</p> <p>AIR-LAUNCHED GUIDED MISSILES - All-Up-Round (AUR) missiles presently supported are: Phoenix, Sidewinder, Sparrow, AMRAAM, Harpoon, HARM, Hellfire, Maverick, Sidarm, Paveway III and Walleye and their related equipment.</p> <p>AIRBORNE ORDNANCE/AMMUNITION/SPECIAL STORES - Weapons/Stores presently supported are: aircrew escape propulsion systems, cartridges, explosive ordnance system devices, cartridge actuated devices, common aircrew ejection seat, gun ammunition, fuzing systems, pyrotechnics, aircraft rockets, general purpose bombs and cluster weapons and their related components.</p>												

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WEAPONS SYSTEM COST ANALYSIS P-5							Weapon System							DATE: February 1998		
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA 3 - Aviation Support Equipment							ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD Stock Surveillance Equipment								
COST CODE	ELEMENT OF COST	ID Code														
			Prior Years	FY 1996			FY 1997			FY 1998			FY 1999			
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	
S2005	Air-Launched Guided Missiles		24,752			695			928			987			0	
S2006	Air-Launched Ordnance		6,424			756			625			562			0	

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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)						Weapon System		A. DATE February 1998		
B. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA 3 - Aviation Support Equipment					C. P-1 ITEM NOMENCLATURE STOCK SURVEILLANCE EQUIPMENT				SUBHEAD 43S2	
COST ELEMENT/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
S2005 Air-Launched Guided Missile										
FY 1996 DETONATOR BALLISTIC CHAMBER	1	130.0	CRANE		C/FP	CRANE	Jun-96	May-97	Yes	N/A
FY 1997 DIURNAL CYCLE CONDITIONING CHAMBER	1	126.0	CRANE		C/FP	BMA INC Aver, MD	Jun-97	May-98	Yes	N/A
SCANNING PROBE SURFACE ANALYSIS SYSTEM	1	115.0	CRANE		C/FP	TOPOMETRIX Santa Clara, CA	Jun-97	May-98	Yes	N/A
COMPLETE GRAPHICAL DRLOG UPGRADE (PART A)	1	117.5	POINT MUGU		C/FP	EMC Camarillo, CA	Jul-97	May-98	Yes	N/A
AWARS/DRLOG ON-BOARD STATISTICAL ANALYSIS/METRICS	1	125.0	POINT MUGU		C/FP	EMC Camarillo, CA	Jul-97	May-98	Yes	N/A
FY 1998 VXI-BASED TEST SYSTEM	1	330.0	CRANE		C/FP	TBD	Jun-98	May-99	Yes	N/A
REAL TIME X-RAY SYSTEM FOR LARGE MOTOR TEST (LMT)	1	280.0	INDIAN HEAD		C/FP	TBD	Jun-98	May-99	Yes	N/A
D. REMARKS ONLY EQUIPMENT PROCUREMENTS OVER \$100K ARE IDENTIFIED.										
					P-1 SHOPP'G LIST ITEM NO. 139	PAGE NO. 3	CLASSIFICATION: UNCLASSIFIED			

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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System			A. DATE February 1998		
B. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA 3 - Aviation Support Equipment					C. P-1 ITEM NOMENCLATURE STOCK SURVEILLANCE EQUIPMENT				SUBHEAD 43S2	
COST ELEMENT/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
S2006 Air-Launched Ordnance										
FY 1996 SCANNING ELECT. MICRO.	1	235.0	CRANE		C/FP	AMRAY, INC. Bedford, MA	Jun-96	May-97	Yes	N/A
FY 1997 PYROTECHNIC/PROPELLANT TEST CONTAINMENT CHAMBER	1	231	CRANE		C/FP	COMARCO Bloomfield, IN	Aug-97	May-98	Yes	N/A
CONDITIONING CHAMBERS (-100 F to +200 F)	2	135	INDIAN HEAD		C/FP	Spectral Dynamics San Jose, CA	Aug-97	May-98	Yes	N/A
FY 1998 PARTICLE ABATEMENT SYSTEM	1	300.0	CRANE		C/FP	TBD	Jun-98	May-99	Yes	N/A
TEMPERATURE/HUMIDITY CHAMBER	1	134.0	INDIAN HEAD		C/FP	TBD	Jun-98	May-99	Yes	N/A
D. REMARKS										
ONLY EQUIPMENT PROCUREMENTS OVER \$100K ARE IDENTIFIED.										

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BUDGET ITEM JUSTIFICATION SHEET P-40							DATE: February 1998					
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY BA3 - AVIATION SUPPORT EQUIPMENT							P-1 ITEM NOMENCLATURE OTHER AVIATION SUPPORT EQUIPMENT					
Program Element for Code B Items:							Other Related Program Elements					
	Prior Years	ID Code	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total
QUANTITY												
COST (In Millions)	\$198.7		\$19.4	\$8.9	\$6.0	\$4.3	\$4.3	\$3.1	\$3.1	\$3.2	CONT	CONT
<p>The following items are funded in this line:</p> <ol style="list-style-type: none"> 1. Tactical Aircraft Mission Planning Systems (TAMPS) - FY 1996 only 2. Industrial Facilities Equipment 3. Capital Automated Data Processing Equipment (ADPE) 4. NAVAIR Support Equipment (ADPE) - FY 1996 only <ol style="list-style-type: none"> 1. <u>Tactical Aircraft Mission Planning System (TAMPS)</u> *In FY 1997 and beyond TAMPS is budgeted in OPN BA 2 under P-1 line item, TAC A/C MISSION PLANNING SYS (TAMPS). Detailed justification for the TAMPS is provided in the OPN BA 2 backup book. 2. <u>Industrial Facilities Equipment</u> This item supports funding of capital costs associated with the Navy's government-owned but contractor-operated Deep Water Test Facility at San Clemente Island. 3. <u>Capital ADPE</u> Procurements supporting the NAVAIR organization (NALDA and I/ETMS), which were formerly budgeted and managed under the Computer Acquisition Program (CAP) in FY 1995 and prior are now directly controlled by NAVAIR, effective FY 1996. Details regarding these NAVAIR Capital ADPE projects are provided below: 3a. <u>Naval Aviation Logistics Data Analysis (NALDA):</u> NAVAIR was directed by the CNO to extend NALDA to additional USN and USMC activities, principally the Fleet and to all NAVAIR Team sites. Sufficient automated data processing equipment (ADPE) and accessibility to the NALDA data base is presently not available at most Navy and Marine Corps Fleet level maintenance and repair facilities. The ADPE is necessary to eliminate the current on-going degradation of their capability to make informed decisions affecting material readiness, safety, and resource allocations. 												

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BUDGET ITEM JUSTIFICATION SHEET P-40							DATE: February 1998					
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY BA3 - AVIATION SUPPORT EQUIPMENT							P-1 ITEM NOMENCLATURE OTHER AVIATION SUPPORT EQUIPMENT					
Program Element for Code B Items:							Other Related Program Elements					
	Prior Years	ID Code	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total
QUANTITY												
COST (In Millions)	\$198.7		\$19.4	\$8.9	\$6.0	\$4.3	\$4.3	\$3.1	\$3.1	\$3.2	CONT	CONT
<p>NALDA is the aviation logistics and engineering communities' corporate integrated logistics support (ILS) data system to accommodate logistics data reporting requirements and performance of critical mission analysis to achieve Affordable Readiness and Total Cost of Ownership decision-making. NALDA provides the following capabilities: (1) a cost-effective, integrated aviation maintenance/logistics data bank; (2) standardized procedures for data access and data analysis techniques; (3) aviation hardware/software/firmware configuration management/tracking capabilities; (4) consolidation of redundant autonomous systems into a single system; (5) standardized, aviation-wide MIS Support; (6) a Logistics Support Analysis Record (LSAR) data system; (7) an accurate configuration management and serial number tracking data system implemented using the SMIS software for aviation weapons systems - the fleet's number one priority to improve readiness and safety of flight; (8) more timely (daily) receipt of fleet AV-3M and configuration data; (9) ability to access centralized fleet-wide, near real-time, operational readiness data from NALDA in accordance with DOD data security regulation; (10) Logistics Management Decision Support System (LMDSS); (11) Technical Data interfaces to JEDMICS and TMPODS; (12) Aircraft Inventory and Readiness Reporting System (AIRRS); (13) Contractor Maintenance and CITIS interfaces; (14) Training and Manpower Logistics data; (15) Total Cost of Ownership; (16) Infrastructure to deploy JLSC MM and JCALS standard systems to the TEAM and Fleet; and (17) Other ILS elements. Information available from the NALDA data bank consists of aviation maintenance, engineering, operational readiness, safety, configuration management, parts life tracking, and other critical logistics data for all naval aircraft, engines, components, support equipment, airborne weapons, and other aviation weapons equipment.</p> <p>Funding budgeted in FY 1998 is required to provide the additional hardware, networking, systems and applications software and infrastructure necessary to deploy Total Cost of Ownership and affordable readiness functional capabilities described above to additional TEAM/Fleet activities. NALDA information and tools will enable significant cost reductions in naval aviation logistics, achieving more affordable readiness, eliminating redundant logistics information systems, improving aircraft configuration management and safety of flight, and permitting improved aircraft inventory and life extension management needed to permit recapitalization and modernization.</p> <p>Data reporting requirements for the NALDA system are directed by OPNAV and NAVAIR as defined primarily by the Naval Aviation Maintenance Program (NAMP) manual. Users of the NALDA system are located at all TEAM/Fleet, TYCOMS, Wings, Intermediate Maintenance Activities, and other aviation logistics activities. The NALDA system architecture is compliant with the DISA TAFIM and Common Operating Environment (COE).</p> <p>3b. <u>Interactive/Electronic Technical Manual System (I/ETMS)</u> I/ETMS is a strategy which supports the Automated Library Technical Manual System (ALTMS) and Automated Technical Information System (ATIS), NAVAIR application ATIS (AIR) programs.</p>												

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BUDGET ITEM JUSTIFICATION SHEET P-40							DATE: February 1998					
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY BA3 - AVIATION SUPPORT EQUIPMENT							P-1 ITEM NOMENCLATURE OTHER AVIATION SUPPORT EQUIPMENT					
Program Element for Code B Items:							Other Related Program Elements					
	Prior Years	ID Code	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total
QUANTITY												
COST (In Millions)	\$198.7		\$19.4	\$8.9	\$6.0	\$4.3	\$4.3	\$3.1	\$3.1	\$3.2	CONT	CONT
<p><u>I/ETMS - con't</u></p> <p>The objective of the I/ETMS strategy is to provide the capability to receive and use digital technical information in the support of developing and fielding Naval Aviation Weapon Systems and Equipment. I/ETMS is the result of a DOD/DON CALS implementation requirement to eliminate paper technical manuals and provide electronic technical manuals to the aviation maintenance community. The I/ETMS configuration consists of the hardware, software, and network interfaces to support fleet maintenance activity to receive, store, and use electronically presented maintenance technical information.</p> <p>ATIS (AIR) is designed to develop and implement at intermediate level maintenance activities an automated system for the distribution, delivery, and display of digital technical data, which will augment the capability provided by ALTMS. ATIS (AIR) is intended to satisfy requirements for value-added digital delivery, improved maintenance and supply functionality, and provide interfaces to existing fleet information systems (ISs).</p> <p>4. <u>NAVAIR Support Equipment:</u> Includes investment equipment used in the operation of NAVAIR Headquarters, and NAVAIR Field Activities such as the Naval Air Warfare Center, Training Systems Division, Orlando, FL., the Pacific Missile Range Facilities (PMRF), Hawaii, and the Naval Air Technical Services Facility (NATSF), Philadelphia. Support equipment is evaluated on a cost-effective (lease vs. purchase) basis. The FY 1996 program (cost code S7020, OIS Headquarters SE) provides for the procurement of necessary upgrades to the existing NAVAIR headquarters Network (NHN), Standard Procurement System (SPS), and Workload Planning System (WPS). The FY 1997 program provides for the Standard Procurement System (SPS). The NHN provides an integrated data communications network that extends the capabilities of the Naval Air Systems Command, its Program Executive Offices, and Naval Air Warfare Center Headquarters to support management of aviation design, development, engineering, logistics support, contract and budgetary data. The SPS Funding provides for the procurement of necessary upgrades to the NAVAIR Team-wide computer infrastructure to support the rapid deployment schedule associated with the stand-up of SPS. SPS is a DOD-wide standard acquisition automated system which is mandated by OSD. The WPS funding provides for a data repository to maintain corporate workload planning information. WPS will provide valuable feedback on the rate and quality of the command's execution to plan and provide the basis for smart investment decisions when trade-offs in capability and capacity are necessary.</p>												

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WEAPONS SYSTEM COST ANALYSIS P-5						Weapon System									DATE: February 1998	
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA-3 Aviation Support Equipment						ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD OTHER AVIATION SUPPORT EQUIPMENT 43S7/U3S7/Y3S7									
COST CODE	ELEMENT OF COST	ID Code														
			Prior Years	FY 1996			FY 1997			FY 1998			FY 1999			
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	
S7011	NON OIS- Field Support Equipment		1,498			0			0			0			0	
	PEO (T) TAMPs		158,430			4,877			*			*			*	
S7030	PEO (A) Industrial Facilities Equipment		2,012			173			187			174			227	
	Capital ADPE															
S7040	NALDA					5,016			4,605			5,839			4,037	
S7060	IETMS					2,103			2,831			0			0	
S7020	OIS Headquarters SE		35,731			7,252			1,249			0			0	
S7021	OIS Field SE		967			0			0			0			0	
* IN FY 1997 AND BEYOND TAMPs IS BUDGETED IN OPN BA 2 UNDER P-1 LINE ITEM TAC A/C MISSION PLANNING SYS (TAMPs) DETAILED JUDTIFICATION FOR THE TAMPs PROGRAM IS PROVIDED IN THE OPN BA 2 BACKUP BOOK.																
			198,638			19,421			8,872			6,013			4,264	

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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System		A. DATE February 1998			
B. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA3 - AVIATION SUPPORT EQUIPMENT					C. P-1 ITEM NOMENCLATURE OTHER AVIATION SUPPORT EQUIPMENT				SUBHEAD 43S7/U3S7/Y3S7	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
S7040- NALDA										
FY 1996	14**	358	NAVSUP/SPCC			FDSC*	01/96	07/96	YES	N/A
FY 1997	16**	288	NAVSUP/SPCC			FDSC*	01/97	07/97	YES	N/A
FY 1998	20**	299	NAVSUP/SPCC			FDSC*	02/98	07/98	YES	N/A
FY 1999	14**	288	NAVSUP/SPCC			FDSC*	01/99	07/99	YES	N/A
D. REMARKS * FDSC is the Federal Data Systems Corporation (FDSC) NAVSUP SPLICE contract #n66032-D-84-0002. ** Quantities reflect complete systems comprised of several components.										